Final Report
Phase I RCRA Facility Investigation for Appendix I Sites

VOLUME II-B

SWMU-14, Sludge Drying Beds

Department of the Air Force
Oklahoma City Air Logistics Center
Tinker Air Force Base, Oklahoma

September 1994

INDEX TO VOLUMES
RFI REPORT

Volume I	SWMU-8, Fire Training Area 2
Volume II-A/B	SWMU-14, Sludge Drying Beds
Volume III-A/B/C/D/E/F	SWMU-24/32, Industrial Wastewater Treatment Plant/Sanitary Wastewater Treatment Plant
Volume IV	SWMU-26, Ordnance Disposal Area
	SWMU-40, AFFF Fire Control Pond
Volume V-A/B	AOC, Fuel Truck Maintenance Area
Volume VI	AOC, Spill Pond (Drainage Spillway Behind Building 1030)
	AOC, Old Pesticide Storage Area
Volume VII	SWMU-1, Landfill No. 6
	SWMU-2, Landfill No. 5
	SWMU-3, Landfill No. 1
	SWMU-4, Landfill No. 2
	SWMU-5, Landfill No. 3
	SWMU-6, Landfill No. 4
Volume VIII	SWMU-7, Fire Training Area 1
	SWMU-11, Supernatant Pond
	SWMU-12, Industrial Waste Pit No. 1
	SWMU-13, Industrial Waste Pit No. 2
	SWMU-23, Industrial Waste Treatment Plant, Abandoned Waste Tanks
	SWMU-54, Stained Drainage Ditch and Drums (near Building 17)
Volume IX	SWMU-19, Radioactive Waste Disposal Site 1030W
	SWMU-20, Radioactive Waste Disposal Site 201S
	SWMU-21, Radioactive Waste Disposal Site 62598
	SWMU-22, Radioactive Waste Disposal Site 1022E

Table of Contents

List of Tables iii
List of Figures iv
List of Acronyms v
Executive Summary ES-1
1.0 Introduction 1-1
1.1 Purpose 1-4
1.2 Scope of Investigation 1-4
2.0 Background 2-1
2.1 Tinker AFB Facility Description and History 2-1
2.2 Site Description and History 2-1
2.3 Regulatory History and Status 2-2
2.4 Summary of Previous Investigations 2-4
3.0 Environmental Setting 3-1
3.1 Topography and Drainage 3-1
3.1.1 Topography 3-1
3.1.2 Surface Drainage 3-1
3.2 Geology 3-3
3.2.1 Regional/Tinker AFB Geology 3-3
3.2.2 Site Geology 3-11
3.3 Hydrology 3-12
3.3.1 Regional/Tinker AFB Hydrology 3-12
3.3.2 Site Hydrology 3-20
3.4 Soils 3-21
4.0 Description of Investigative Methods 4-1
4.1 Soil Gas Survey 4-1
4.2 Soil Boring Installation 4-1
4.3 Shallow Monitoring Well Installation 4-4
4.4 Deep Monitoring Well Installation 4-6
4.5 Surface Completion 4-8
4.6 Well Development 4-8
4.7 Groundwater Sampling 4-8
4.8 Elevation and Location Surveying 4-9
5.0 Investigation Results 5-1

Table of Contents *(Continued)*

5.1 Data Quality Evaluation 5-1
5.1.1 Field Quality Control 5-1
5.1.2 Laboratory Quality Control 5-2
5.1.3 Evaluation of Precision and Accuracy 5-2
5.1.4 Data Verification 5-3
5.1.5 Data Useability 5-4
5.2 Source Characterization Results 5-4
5.3 Contaminant Characterization Results 5-4
5.3.1 Establishment of Surficial Soil Background Concentrations 5-5
5.3.2 Soil Characterization 5-6
5.3.3 Groundwater Characterization 5-20
6.0 Potential Receptors 6-1
6.1 Human Receptors 6-1
6.2 Ecological Receptors 6-2
7.0 Action Levels 7-1
8.0 Summary and Conclusions 8-1
8.1 Summary 8-1
8.2 Conclusions 8-1
9.0 Recommendations 9-1
10.0 References 10-1
Appendix A - Boring Logs/Well Construction Diagrams
Appendix B - Geophysical Logs
Appendix C - Soil Gas Report
Appendix D - Data Tables, Certificates of Analysis, Chain-of-Custody
Appendix E - Site Survey Report
Appendix F - Geotechnical, Certificates of Analysis, Chain-of-Custody

List of Tables

Table	Title	Page
3-1	Major Geological Units in the Vicinity of Tinker AFB (Modified From Wood and Burton, 1968)	3-4
3-2	Tinker AFB Soil Associations (Source: USDA, 1969)	3-22
4-1	Sludge Drying Beds, Summary of RFI Field Activities	4-2
5-1	Analytical Results for Sludge Drying Beds for Soils	5-10
5-2	Soil Metals Background Comparison	5-18
5-3	Sludge Drying Beds RFI Soil Borings Summary	5-19
5-4	Sludge Drying Beds Monitoring Well Construction Details	5-28
5-5	Analytical Results for Sludge Drying Beds for USZ Groundwater	5-29
5-6	Analytical Results for Sludge Drying Beds for LSZ Groundwater	5-31
7-1	Action Levels, SWMU-14, SDB, Tinker AFB	7-3

List of Figures

Figure	Title	Follows Page
1-1	Tinker Air Force Base, Oklahoma State Index Map	1-2
1-2	Sludge Drying Beds Site Location Map	1-3
3-1	Topographic Map of Sludge Drying Beds with Locations of Soil Borings, Soil Vapor Survey Points, and Monitoring Wells	3-2
3-2	Tinker AFB Geological Cross Section Location Map	3-8
3-3	Tinker AFB Geological Cross Section A-A'	3-9
3-4	Tinker AFB Geological Cross Section B-B'	3-10
3-5	Conceptual Model Potentiometric Surface, Upper Saturated Zone	3-15
3-6	Conceptual Model Potentiometric Surface, Lower Saturated Zone	3-16
4-1	Sludge Drying Beds Site Map with Locations of Soil Borings, Soil Vapor Survey Points, and Monitoring Wells	4-3
5-1	Site Cross Section Location Map	5-7
5-2	Cross Section C-C'	5-8
5-3	Cross Section D-D'	5-9
5-4	Potentiometric Surface Map of the Upper Saturated Zone in the Vicinity of the Sludge Drying Beds	5-21
5-5	Isopleth Map of 1,2 Dichloroethane Concentration in the Upper Saturated Zone at the Sludge Drying Beds	5-22
5-6	Isopleth Map of 1,2 Dichloroethane Concentration in the Upper Saturated Zone (Lower Portion) at the Sludge Drying Beds	5-23
5-7	Isopleth Map of Chloroform Concentration in the Upper Saturated Zone at the Sludge Drying Beds	5-24
5-8	Isopleth Map of Chloroform Concentrations in the Upper Saturated Zone (Lower Portion) at the Sludge Drying Beds	5-25
5-9	Tetrachloroethene (PCE) Concentrations Detected by Soil Vapor Survey for the Sludge Drying Beds	5-26
5-10	Total FID Volatiles Concentrations Detected by Soil Vapor Survey for the Sludge Drying Beds	5-27

List of Acronyms

AFB	Air Force Base
AOC	areas of concern
^{o}C	degrees centigrade
CAL	Corrective Action Levels
CDM	CDM Federal Programs Corporation
CEC	cation exchange capacity
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cm/s	centimeters per second
COD	chemical oxygen demand
CMS	Corrective Measures Study
DCQAP	Data Collection Quality Assurance Plan
DERP	Defense Environmental Response Program
DOD	U.S. Department of Defense
DQO	Data Quality Objective
DWS	drinking water standards
EC	electric conductivity
ECD	ethylene chloride
EID	Engineering Installation Division
EPA	U.S. Environmental Protection Agency
ES	Engineering Science
FID	flame ionization detectors
ft/ft	foot per foot
FTMA	Fuel Truck Maintenance Area
GC/MS	gas chromatograph/mass spectrometry
HCl	hydrochloric acid
HRS	Hazardous Ranking System
HSWA	Hazardous and Solid Waste Amendments
I.D.	inside diameter
IRP	Installation Restoration Program
IWP-1	Industrial Waste Pit No. 1
IWTP	industrial wastewater treatment plant
JP-4	jet propulsion fuel grade 4
LSZ	lower saturated zone

List of Acronyms *(Continued)*

µg/kg	micrograms per kilogram
µg/L	micrograms per liter
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
NAAQS	National Ambient Air Quality Standards
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
O.D.	outside diameter
PA/SI	preliminary assessment/site investigation
PCE	tetrachloroethene
PID	photoionization detectors
PVC	polyvinyl chloride
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI/FS	remedial investigation/feasibility study
ROD	Record of Decision
RPD	relative percent difference
SARA	Superfund Amendments and Reauthorization Act
SDB	Sludge Drying Beds
SP	self potential
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TCA	trichloroethane
TCE	trichloroethene
TPH	total petroleum hydrocarbons
TSD	treatment, storage, and disposal (facility)
TOC	total organic carbon
TPH	total petroleum hydrocarbons
USACE	U.S. Army Corps of Engineers

List of Acronyms *(Continued)*

USC	U.S. Code
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
USZ	upper saturated zone
VOA	volatile organic analysis
VOC	volatile organic compounds
WQS	Water Quality Standards

APPENDIX D
(CONTINUED)
DATA TABLES, CERTIFICATES OF ANALYSIS, CHAIN-OF-CUSTODY

Routed to KH, CF, TL 12/9/93 TRJ

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED DEC - 8 1992

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/07/93

Work Order: B3-10-336

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O.5001 409832-003-01
Date Received: 10/26/93
Number of Samples: 21
Sample Type: SOIL

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1041	B3-10-336-01
A1042	B3-10-336-02
A1043	B3-10-336-03
A1044	B3-10-336-04
A1045	B3-10-336-05
A1046	B3-10-336-06
A1047	B3-10-336-07
A1047-MS	B3-10-336-08
A1047-MSD	B3-10-336-09
A1048	B3-10-336-10
A1049	B3-10-336-11
A1050	B3-10-336-12
A1051	B3-10-336-13

Reviewed and Approved:

Jon Bartell
Laboratory Director

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

409832-003-01 Work Order: B3-10-336

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
A1052	B3-10-336-14
A1053	B3-10-336-15
A1054	B3-10-336-16
A1055	B3-10-336-17
J5420	B3-10-336-18
LAB BLANK #1	B3-10-336-19
LAB BLANK #1	B3-10-336-20
LAB BLANK 2	B3-10-336-21

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1041**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/01/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	94	88 - 110
BROMOFLUOROBENZENE	100	86 - 115
1,2-DICHLOROETHANE-D4	103	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1042
SAMPLE DATE: 10/25/93 11:10:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.23	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1042**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	2.5	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.9	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1042**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1042**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	91	30 - 115
Terphenyl-D14	79	18 - 137
Phenol-D5	77	24 - 113
2-Fluorophenol	68	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1042**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **107.526**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.0	N	0.88	7060	11/12/93
Aluminum	11000	N	22	6010	11/13/93
Barium	110	N*	22	6010	11/13/93
Beryllium	1.3		0.54	6010	11/13/93
Cadmium	0.51		0.54	6010	11/13/93
Chromium	11		1.1	6010	11/13/93
Copper	5.9		2.7	6010	11/13/93
Iron	8600	N*	11	6010	11/13/93
Nickel	9.0		4.3	6010	11/13/93
Lead	3.4	N	0.26	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.15		1.1	6010	11/13/93
Zinc	17		2.2	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: **A1043**
SAMPLE DATE: **10/25/93 11:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.34	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1043**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.6	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.9	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	5.7	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	107	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1043**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1043**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	58	23 - 120
2-Fluorobiphenyl	70	30 - 115
Terphenyl-D14	60	18 - 137
Phenol-D5	55	24 - 113
2-Fluorophenol	46	25 - 121
2,4,6-Tribromophenol	57	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1043**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **83.3333**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.1	N	1.2	7060	11/12/93
Aluminum	7000	N	17	6010	11/13/93
Barium	56	N*	17	6010	11/13/93
Beryllium	1.2		0.42	6010	11/13/93
Cadmium	0.80		0.42	6010	11/13/93
Chromium	9.7		0.83	6010	11/13/93
Copper	4.6		2.1	6010	11/13/93
Iron	8200	N*	8.3	6010	11/13/93
Nickel	11		3.3	6010	11/13/93
Lead	4.4	N	0.35	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.24		0.83	6010	11/13/93
Zinc	14		1.7	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: **A1044**
SAMPLE DATE: **10/25/93 11:25:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1044**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	4.6	J	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.8	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.7	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
[illegible]-1-Dichloroethane	5	U	5	Bromoform	5	U	5
[illegible]ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1044**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1044**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	91	30 - 115
Terphenyl-D14	80	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	60	25 - 121
2,4,6-Tribromophenol	82	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1044**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **94.3396**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.2	N	1.1	7060	11/12/93
Aluminum	9800	N	19	6010	11/13/93
Barium	270	N*	19	6010	11/13/93
Beryllium	1.9		0.47	6010	11/13/93
Cadmium	0.92		0.47	6010	11/13/93
Chromium	15		0.94	6010	11/13/93
Copper	8.6		2.4	6010	11/13/93
Iron	14000	N*	9.4	6010	11/13/93
Nickel	16		3.8	6010	11/13/93
Lead	4.5	N	0.33	7421	11/12/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	0.20		0.94	6010	11/13/93
Zinc	20		1.9	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

SAMPLE ID: **A1045**
SAMPLE DATE: **10/25/93 11:35:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.13	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1045**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	8.5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	13	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	2.6	J	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	4.1	J	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	7.5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	111	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1045**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1045**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	90	30 - 115
Terphenyl-D14	76	18 - 137
Phenol-D5	72	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	72	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1045**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **94.3396**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.8	N	1.0	7060	11/12/93
Aluminum	8800	N	19	6010	11/13/93
Barium	410	N*	19	6010	11/13/93
Beryllium	1.6		0.47	6010	11/13/93
Cadmium	0.68		0.47	6010	11/13/93
Chromium	13		0.94	6010	11/13/93
Copper	7.9		2.4	6010	11/13/93
Iron	12000	N*	9.4	6010	11/13/93
Nickel	14		3.8	6010	11/13/93
Lead	6.6	N	0.31	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.098		0.94	6010	11/13/93
Zinc	18		1.9	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1046
SAMPLE DATE: 10/25/93 14:15:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.11	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1046**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.0	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	120	B	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
[illegible]-Dichloroethane	5	U	5	Bromoform	5	U	5
[illegible]ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	5.6	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1046**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/01/93
ANALYSIS DATE: 11/14/93
DILUTION FACTOR: 0.033
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1046**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	89	30 - 115
Terphenyl-D14	83	18 - 137
Phenol-D5	65	24 - 113
2-Fluorophenol	55	25 - 121
2,4,6-Tribromophenol	92	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1046**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **105.263**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	0.94	7060	11/12/93
Aluminum	13000	N	21	6010	11/13/93
Barium	400	N*	21	6010	11/13/93
Beryllium	2.4		0.53	6010	11/13/93
Cadmium	1.00		0.53	6010	11/13/93
Chromium	12		1.1	6010	11/13/93
Copper	8.3		2.6	6010	11/13/93
Iron	16000	N*	11	6010	11/13/93
Nickel	13		4.2	6010	11/13/93
Lead	4.7	N	0.28	7421	11/12/93
Mercury	0.027		0.022	7471	11/07/93
Silver	0.50		1.1	6010	11/13/93
Zinc	18		2.1	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1047
SAMPLE DATE: 10/25/93 14:20:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.26	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1047**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.0	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	130	B	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
l-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	8.5	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	111	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1047**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1047**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	67	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	78	18 - 137
Phenol-D5	72	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	74	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1047**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **101.010**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.2	N	0.86	7060	11/12/93
Aluminum	10000	N	20	6010	11/13/93
Barium	760	N*	20	6010	11/13/93
Beryllium	1.3		0.51	6010	11/13/93
Cadmium	1.3		0.51	6010	11/13/93
Chromium	14		1.0	6010	11/13/93
Copper	6.8		2.5	6010	11/13/93
Iron	12000	N*	10	6010	11/13/93
Nickel	16		4.0	6010	11/13/93
Lead	6.1	N	0.26	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.11		1.0	6010	11/13/93
Zinc	18		2.0	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

SAMPLE ID: **A1047-MS**
SAMPLE DATE: **10/25/93 14:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		93		% REC	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1047-MS**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	90	Trichloroethene	85
		Benzene	96
		Toluene	103
		Chlorobenzene	103

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	111	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1047-MS**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	79	Acenaphthene	121
2-Chlorophenol	90	4-Nitrophenol	67
1,4-Dichlorobenzene	75	2,4-Dinitrotoluene	84
N-Nitroso-di-n-propylamine	99	Pentachlorophenol	74
1,2,4-Trichlorobenzene	89	Pyrene	96
4-Chloro-3-methylphenol	89		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	79	23 - 120
2-Fluorobiphenyl	92	30 - 115
Terphenyl-D14	77	18 - 137
Phenol-D5	72	24 - 113
2-Fluorophenol	70	25 - 121
2,4,6-Tribromophenol	82	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1047-MS**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **101.010**
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	23.8	7060	11/12/93
Aluminum	1134	6010	11/13/93
Barium	0	6010	11/13/93
Beryllium	83	6010	11/13/93
Cadmium	86	6010	11/13/93
Chromium	92	6010	11/13/93
Copper	92	6010	11/13/93
Iron	896	6010	11/13/93
Nickel	86	6010	11/13/93
Lead	3.4	7421	11/12/93
Mercury	109	7471	11/07/93
Silver	86	6010	11/13/93
Zinc	86	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES, affecting all soil samples in batch. LCS / LCSD results and method Quality Control were acceptable.

Duplicate analysis outside control limits due to matrix interference on barium and iron analysis by ICPES, affecting all soil samples in batch. LCS/LCSD results & method QC were acceptable.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: **A1047-MSD**
SAMPLE DATE: **10/25/93 14:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		96		% REC	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1047-MSD**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: % **REC**

	Result		Result
1,1-Dichloroethene	99	Trichloroethene	89
		Benzene	102
		Toluene	110
		Chlorobenzene	108

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	110	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1047-MSD**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/01/93
ANALYSIS DATE: 11/13/93
DILUTION FACTOR: 0.033
UNITS: **% REC**

	Result		Result
Phenol	73	Acenaphthene	112
2-Chlorophenol	78	4-Nitrophenol	62
1,4-Dichlorobenzene	67	2,4-Dinitrotoluene	74
N-Nitroso-di-n-propylamine	86	Pentachlorophenol	62
1,2,4-Trichlorobenzene	83	Pyrene	89
4-Chloro-3-methylphenol	81		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	91	30 - 115
Terphenyl-D14	73	18 - 137
Phenol-D5	67	24 - 113
2-Fluorophenol	63	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

IT ANALYTICAL SERVICES
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Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001 409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1047-MSD**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **113.636**
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	44.7	7060	11/12/93
Aluminum	1090	6010	11/13/93
Barium	0	6010	11/13/93
Beryllium	84	6010	11/13/93
Cadmium	87	6010	11/13/93
Chromium	92	6010	11/13/93
Copper	93	6010	11/13/93
Iron	833	6010	11/13/93
Nickel	87	6010	11/13/93
Lead	0	7421	11/12/93
Mercury	104	7471	11/07/93
Silver	87	6010	11/13/93
Zinc	87	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES, affecting all soil samples in batch. LCS / LCSD results and method Quality Control were acceptable.

Duplicate analysis outside control limits due to matrix interference on barium and iron analysis by ICPES, affecting all soil samples in batch. LCS/LCSD results & method QC were acceptable.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1048
SAMPLE DATE: 10/25/93 14:30:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1048**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.4	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	13	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.0	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1048**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1048**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	69	23 - 120
2-Fluorobiphenyl	84	30 - 115
Terphenyl-D14	73	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	72	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

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Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001 409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1048**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **117.647**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.8	N	1.1	7060	11/12/93
Aluminum	7400	N	24	6010	11/13/93
Barium	390	N*	24	6010	11/13/93
Beryllium	1.2		0.59	6010	11/13/93
Cadmium	0.46		0.59	6010	11/13/93
Chromium	11		1.2	6010	11/13/93
Copper	6.0		2.9	6010	11/13/93
Iron	8000	N*	12	6010	11/13/93
Nickel	9.3		4.7	6010	11/13/93
Lead	4.6	N	0.34	7421	11/12/93
Mercury	0.020	U	0.020	7471	11/07/93
Silver	0.023		1.2	6010	11/13/93
Zinc	15		2.4	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1049
SAMPLE DATE: 10/25/93 14:40:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1049**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.4	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	110	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1049**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
3(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1049**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	72	23 - 120
2-Fluorobiphenyl	86	30 - 115
Terphenyl-D14	74	18 - 137
Phenol-D5	67	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	75	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1049**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **103.092**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.3	N	0.86	7060	11/12/93
Aluminum	9500	N	21	6010	11/13/93
Barium	690	N*	21	6010	11/13/93
Beryllium	1.6		0.52	6010	11/13/93
Cadmium	0.26		0.52	6010	11/13/93
Chromium	13		1.0	6010	11/13/93
Copper	7.9		2.6	6010	11/13/93
Iron	12000	N*	10	6010	11/13/93
Nickel	11		4.1	6010	11/13/93
Lead	8.5	N	1.0	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.26		1.0	6010	11/13/93
Zinc	15		2.1	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1050
SAMPLE DATE: 10/25/93 15:50:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1050**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.5	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.2	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1050**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
[illegible](2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1050**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	60	23 - 120
2-Fluorobiphenyl	78	30 - 115
Terphenyl-D14	63	18 - 137
Phenol-D5	62	24 - 113
2-Fluorophenol	53	25 - 121
2,4,6-Tribromophenol	60	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1050**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **97.0873**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.3	N	0.86	7060	11/12/93
Aluminum	15000	N	19	6010	11/13/93
Barium	230	N*	19	6010	11/13/93
Beryllium	1.8		0.49	6010	11/13/93
Cadmium	0.98		0.49	6010	11/13/93
Chromium	14		0.97	6010	11/13/93
Copper	7.8		2.4	6010	11/13/93
Iron	12000	N*	9.7	6010	11/13/93
Nickel	11		3.9	6010	11/13/93
Lead	9.2	N	1.0	7421	11/12/93
Mercury	0.024	U	0.024	7471	11/07/93
Silver	0.079		0.97	6010	11/13/93
Zinc	21		1.9	6010	11/13/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1051
SAMPLE DATE: 10/25/93 16:00:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1051**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.7	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1051**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1051**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	79	23 - 120
2-Fluorobiphenyl	91	30 - 115
Terphenyl-D14	75	18 - 137
Phenol-D5	72	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	78	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1051**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **104.166**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	11	N	3.5	7060	11/12/93
Aluminum	8700	N	21	6010	11/13/93
Barium	580	N*	21	6010	11/13/93
Beryllium	1.9		0.52	6010	11/13/93
Cadmium	0.94		0.52	6010	11/13/93
Chromium	10		1.0	6010	11/13/93
Copper	11		2.6	6010	11/13/93
Iron	12000	N*	10	6010	11/13/93
Nickel	28		4.2	6010	11/13/93
Lead	27	N	1.0	7421	11/12/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.69		1.0	6010	11/13/93
Zinc	18		2.1	6010	11/13/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1052
SAMPLE DATE: 10/25/93 16:05:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1052**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' l-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	93	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1052**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/01/93
ANALYSIS DATE: 11/13/93
DILUTION FACTOR: 0.033
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1052**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	89	30 - 115
Terphenyl-D14	73	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1052**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **89.2857**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.6	N	1.1	7060	11/12/93
Aluminum	9000	N	18	6010	11/13/93
Barium	150	N*	18	6010	11/13/93
Beryllium	1.5		0.45	6010	11/13/93
Cadmium	0.79		0.45	6010	11/13/93
Chromium	11		0.89	6010	11/13/93
Copper	8.0		2.2	6010	11/13/93
Iron	9400	N*	8.9	6010	11/13/93
Nickel	12		3.6	6010	11/13/93
Lead	4.6	N	0.32	7421	11/12/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	0.28		0.89	6010	11/13/93
Zinc	19		1.8	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1053
SAMPLE DATE: 10/25/93 16:25:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1053**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.3	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.2	BJ	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1053**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1053**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	67	23 - 120
2-Fluorobiphenyl	85	30 - 115
Terphenyl-D14	70	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	64	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1053**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **106.382**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	5.0	N	3.7	7060	11/15/93
Aluminum	9100	N	21	6010	11/13/93
Barium	760	N*	21	6010	11/13/93
Beryllium	1.6		0.53	6010	11/13/93
Cadmium	0.45		0.53	6010	11/13/93
Chromium	13		1.1	6010	11/13/93
Copper	8.0		2.7	6010	11/13/93
Iron	11000	N*	11	6010	11/13/93
Nickel	12		4.3	6010	11/13/93
Lead	8.9	N	1.1	7421	11/12/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	0.32		1.1	6010	11/13/93
Zinc	16		2.1	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: A1054
SAMPLE DATE: 10/25/93 16:25:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1054**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.8	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1 1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.4	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	113	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1054**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
[illegible](2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1054**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	70	23 - 120
2-Fluorobiphenyl	81	30 - 115
Terphenyl-D14	65	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	62	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1054**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **97.0873**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.87	UN	0.87	7060	11/12/93
Aluminum	8300	N	19	6010	11/13/93
Barium	530	N*	19	6010	11/13/93
Beryllium	1.6		0.49	6010	11/13/93
Cadmium	0.10		0.49	6010	11/13/93
Chromium	12		0.97	6010	11/13/93
Copper	8.4		2.4	6010	11/13/93
Iron	10000	N*	9.7	6010	11/13/93
Nickel	13		3.9	6010	11/13/93
Lead	8.8	N	1.0	7421	11/12/93
Mercury	0.020	U	0.020	7471	11/07/93
Silver	0.14		0.97	6010	11/13/93
Zinc	15		1.9	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1055**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/01/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	95	88 - 110
BROMOFLUOROBENZENE	104	86 - 115
1,2-DICHLOROETHANE-D4	108	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Grain Size Distriubtion**
METHOD REFERENCE: **ASTM_D422**

SAMPLE ID: **J5420**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Form not available.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Moisture Content**
METHOD REFERENCE: **ASTM_D216**

SAMPLE ID: **J5420**
SAMPLE DATE: **10/25/93**
SAMPLE MATRIX: **SOIL**

Form not available.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

SAMPLE ID: LAB BLANK #1
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/04/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/01/93**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
[illegible](2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	82	23 - 120
2-Fluorobiphenyl	99	30 - 115
Terphenyl-D14	82	18 - 137
Phenol-D5	72	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	83	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	11/13/93
Barium	0.20	U	0.20	6010	11/13/93
Beryllium	0.0050	U	0.0050	6010	11/13/93
Cadmium	0.0050	U	0.0050	6010	11/13/93
Chromium	0.010	U	0.010	6010	11/13/93
Copper	0.025	U	0.025	6010	11/13/93
Iron	0.10	U	0.10	6010	11/13/93
Nickel	0.040	U	0.040	6010	11/13/93
Lead	0.0030	U	0.0030	7421	11/12/93
Mercury	0.00020	U	0.00020	7471	11/07/93
Silver	0.010	U	0.010	6010	11/13/93
Zinc	0.020	U	0.020	6010	11/13/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-336

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/01/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.2	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.1	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	95	88 - 110
BROMOFLUOROBENZENE	101	86 - 115
1,2-DICHLOROETHANE-D4	105	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

SAMPLE ID: LAB BLANK 2
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/05/93	EPA7196

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

Referenced notes for this work order:

B310336 18A J5420

GEOTECHNICAL DATA REPORTED UNDER SEPARATE COVER.

B310336 18B J5420

GEOTECHNICAL DATA REPORTED UNDER SEPARATE COVER.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684
409832-003-01 Work Order: B3-10-336

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Cation Exchange Capacity** TEST CODE **CEC_A**

Cation exchange Capacity	Part 2: Chemical and microbiological properties method 57-3. American Society of Agronomy, Methods of soil Analysis 2nd Edition.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684
409832-003-01 Work Order: B3-10-336

TEST NAME **Grain Size Distriubtion** TEST CODE **GRAIN**

Method not available.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water. Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Moisture Content** TEST CODE **MOIS_G**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Vertical Permeability** TEST CODE **V_PERM**

Method not available.

Company: IT CORPORATION
Date: 12/07/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-336

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

B310356

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 313510
Page 1 of 3

409832.03.01

Project Name/No. [1] Tinker AFB-5001
Sample Team Members [2] Andrew Gordon, Kyle Kirschenmann
Profit Center No. [3] 3527
Project Manager [4] Jimmy Taylor
Purchase Order No. [6] 409832.03.01-5001
Required Report Date [11] 15 Days

Samples Shipment Date [7] 10-25-93
Lab Destination [8] ITAS-Austin
Lab Contact [9] Karman Deane
Project Contact/Phone [12] Dan McGregor 405 736-8260
Carrier/Waybill No. [13] 8460756415

Bill to: [5] 409832.03.01 O.O. 5001
Report to: [10] Jim Jennings IT-Austin-ES

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Preservative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1041	Trip Blank	10-21-93 1700	glass clear	40ml	HCl COOL	8240	Good 4°C RUK 10/26/93	B324400 10/21/93 1700hrs
A1042	Soil	10-25-93 1110		125ml	COOL	8240		
A1042		10-25-93 1110		500ml		8270, 6010/7000		
A1043		10-25-93 1120		125ml		8240		
A1043		10-25-93 1120		500ml		~~500~~ 8270, 6010/7000		
A1044		10-25-93 1125		125ml		8240		
A1044		10-25-93 1125		500ml		8270, 6010, 7000		

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive ___ (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☐

QC Level: [27]
I ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) (IT)	Date: 10-25-93 Time: 1800	1. Received by [28] (Signature/Affiliation) IT	Date: 10/26/93 Time: 0922
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions

MCA 3/15/91

B310336

TERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS R JEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 313570

Page 2 of 3

Project Name TAFB-5001

Project No. 408832.0301

Samples Shipment Date 10-25-93

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
A1045	Soil	10-25-93 1135	125	125ml	COOL	8240	Good, 4°C RWR 11/26/93	
A1045		10-25-93 1135	500	500ml		8270, 6010/7000		
A1046		10-25-93 1415	125	125ml		8240		
A1046		10-25-93 1415	500	500ml		8270, 6010/7000		
A1047 MS/MSD		10-25-93 1420	125	125ml		8240		
A1047 MS/MSD		10-25-93 1420	500	500ml		8270, 6010/7000		
A1048		10-25-93 1430	125	125ml		8240		
A1048		10-25-93 1430	500	500ml		8270, 6010/7000		
A1049		10-25-93 1440	125	125ml		8240		
A1049		10-25-93 1440	500	500ml		8270, 6010/7000		
A1050		10-25-93 1550	clear glass	125ml		8240		
A1050		10-25-93 1550		500ml		8270, 6010/7000		
A1051		10-25-93 1600		125ml		8240		
A1051		10-25-93 1600		500ml		8270, 6010/7000		
A1052		10-25-93 1605		125ml		8240		
A1052		10-25-93 1605		500ml		8270, 6010, 7000		
A1053		10-25-93 1625		125ml		8240		
A1053		10-25-93 1625		500ml		8270, 6010, 7000		
A1054		10-25-93 1625		125ml		8240		
A1054		10-25-93 1625		500ml		8270, 6010/7000		

Clear Glass

White: To accompany samples Yellow: Field copy

*See back of form for special instructions

B310336

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 313510
Page 3 of 3

Project Name: TAFB 5001

Project No. 409832.03-01

Samples Shipment Date 10-25-93

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1055	Trip Blank	10-21-93 1700	Clear glass	40	HCl 100L	8240	Good, RUR, 4°C 10/26/93	B3244100 DC 10/21/93 1700 hr
J5420	Soil	10-25-93 1615	Clear glass	1000ml	COOL	ASTM D422, D216 EPA 9081		
J5420	"	10-25-93 1615	SS Sleeve	2	"	EPA 9100 Vert. Perm.		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1042

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	87.7
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	110
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	87.7

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1043

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	116
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	109
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	116

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1044

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	111
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	115
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	111

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1045

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	103
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	111
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	103

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1046

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
06B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	94.3
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	108
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	94.3

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1047

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	85.5
	Chromium VI	B310336-19B	1104CR_VI	11/04/93	11/04/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	112
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	85.5

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1047-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	103
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	120
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	103

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1047-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
09B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	104
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	115
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	104

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1048

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	112
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	100
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	112

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1049

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
11B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	86.2
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	112
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	345

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1050

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
12B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	85.5
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	10.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	119
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	342

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1051

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
13B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	348
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	108
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	348

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1052

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
14B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	106
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	114
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	106

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1053

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
15B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/16/93	367
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	115
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	367

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : A1054

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
16B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	87
	Chromium VI	B310336-21A	1105CR_VI1	11/05/93	11/05/93	50.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	101
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	348

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : LAB BLANK #1

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
19B						
	Arsenic	B310336-19B	11103050F1	11/10/93	11/12/93	1.0
	Chromium VI	B310336-19B	1104CR_VI1	11/04/93	11/04/93	1.0
	Mercury	B310336-19B	1107HGAA1	11/07/93	11/07/93	1.0
	Lead	B310336-19B	11103050F1	11/10/93	11/12/93	1.0

Auxiliary Data Summary 12/03/93

Work order : B310336 Sample ID : LAB BLANK 2

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
21A	Chromium VI	B310339-21A	1105CR_VI1	11/05/93	11/05/93	1.0

TPJ

Routed to K4, CF, TL 12/9/93

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED DEC - 9 1992

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/06/93

Work Order: B3-10-300

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O.5001 409832-003-01
Date Received: 10/22/93
Number of Samples: 25
Sample Type: WATER/SOIL

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1013	B3-10-300-01
A1014	B3-10-300-02
A1015	B3-10-300-03
A1016	B3-10-300-04
A1017	B3-10-300-05
A1018	B3-10-300-06
A1019	B3-10-300-07
A1019-MS	B3-10-300-08
A1019-MSD	B3-10-300-09
A1020	B3-10-300-10
A1021	B3-10-300-11
A1500	B3-10-300-12
A1501	B3-10-300-13

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
A1502	B3-10-300-14
A1503	B3-10-300-15
A1504	B3-10-300-16
A1505	B3-10-300-17
A1506	B3-10-300-18
A1507	B3-10-300-19
A1508	B3-10-300-20
LAB BLANK #1	B3-10-300-21
LAB BLANK #2	B3-10-300-22
LAB BLANK #3	B3-10-300-23
LAB BLANK	B3-10-300-24
LAB BLANK #2	B3-10-300-25

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1013**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	94	88 - 110
BROMOFLUOROBENZENE	95	86 - 115
1,2-DICHLOROETHANE-D4	102	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Referenced notes for these results:

Sample was run by Method 624. A nonconformance was filed.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1014
SAMPLE DATE: 10/21/93 08:00:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1014**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.1	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.1	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	111	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1014**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.066	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1014**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	78	30 - 115
Terphenyl-D14	85	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	68	25 - 121
2,4,6-Tribromophenol	74	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1014**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **113.636**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.4	N	1.0	7060	11/09/93
Aluminum	8600	N*	23	6010	11/23/93
Barium	98	N*	23	6010	11/23/93
Beryllium	0.87		0.57	6010	11/23/93
Cadmium	0.57	U	0.57	6010	11/23/93
Chromium	12		1.1	6010	11/23/93
Copper	7.1		2.8	6010	11/23/93
Iron	11000	N*	11	6010	11/23/93
Nickel	12	N	4.5	6010	11/23/93
Lead	5.3	N	0.30	7421	11/09/93
Mercury	0.020	U	0.020	7471	11/06/93
Silver	1.1	U	1.1	6010	11/23/93
Zinc	19		2.3	6010	11/23/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1015
SAMPLE DATE: 10/21/93 08:20:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1015**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	6.9	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.4	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1.1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.6	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1015**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
:(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reportin Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.12	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1015**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	75	23 - 120
2-Fluorobiphenyl	80	30 - 115
Terphenyl-D14	87	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	64	25 - 121
2,4,6-Tribromophenol	73	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1015**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **95.2380**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.97	UN	0.97	7060	11/09/93
Aluminum	9500	N*	19	6010	11/23/93
Barium	430	N*	19	6010	11/23/93
Beryllium	0.87		0.48	6010	11/23/93
Cadmium	0.48	U	0.48	6010	11/23/93
Chromium	13		0.95	6010	11/23/93
Copper	6.7		2.4	6010	11/23/93
Iron	10000	N*	9.5	6010	11/23/93
Nickel	12	N	3.8	6010	11/23/93
Lead	5.9	N	0.29	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/06/93
Silver	0.95	U	0.95	6010	11/23/93
Zinc	18		1.9	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1016
SAMPLE DATE: 10/21/93 08:25:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1016**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	6.9	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.6	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.8	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	107	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1016**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/08/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporti Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.088	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1016**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	71	23 - 120
2-Fluorobiphenyl	80	30 - 115
Terphenyl-D14	84	18 - 137
Phenol-D5	61	24 - 113
2-Fluorophenol	51	25 - 121
2,4,6-Tribromophenol	92	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1016**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **116.279**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.97	UN	0.97	7060	11/09/93
Aluminum	6200	N*	23	6010	11/23/93
Barium	850	N*	23	6010	11/23/93
Beryllium	0.61		0.58	6010	11/23/93
Cadmium	0.58	U	0.58	6010	11/23/93
Chromium	9.8		1.2	6010	11/23/93
Copper	5.3		2.9	6010	11/23/93
Iron	9200	N*	12	6010	11/23/93
Nickel	10	N	4.7	6010	11/23/93
Lead	6.0	N	0.29	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/06/93
Silver	1.2	U	1.2	6010	11/23/93
Zinc	12		2.3	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1017
SAMPLE DATE: 10/21/93 14:10:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1017**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	7.0	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.9	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	3.7	J	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	13	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	2.3	J	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	102	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1017**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.27	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1017**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	79	23 - 120
2-Fluorobiphenyl	81	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	68	25 - 121
2,4,6-Tribromophenol	81	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1017**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **116.279**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.8	N	1.0	7060	11/09/93
Aluminum	13000	N*	23	6010	11/23/93
Barium	83	N*	23	6010	11/23/93
Beryllium	1.1		0.58	6010	11/23/93
Cadmium	0.58	U	0.58	6010	11/23/93
Chromium	12		1.2	6010	11/23/93
Copper	7.6		2.9	6010	11/23/93
Iron	12000	N*	12	6010	11/23/93
Nickel	10	N	4.7	6010	11/23/93
Lead	9.5	N	1.2	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/06/93
Silver	1.2	U	1.2	6010	11/23/93
Zinc	20		2.3	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1018
SAMPLE DATE: 10/21/93 14:15:00
SAMPLE MATRIX: WATER

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
TPH - IR		1.0U	1.0	MG/L	11/05/93	EPA418_1

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1018**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	9.3		5
Methylene chloride	7.7	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	2.6	J	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	3.2	J	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	6.6		5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	93	88 - 110
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1018**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
DILUTION FACTOR (6010): **1.00000**
UNITS: **MG/L**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	11/16/93
Barium	0.20	U	0.20	6010	11/16/93
Beryllium	0.0050	U	0.0050	6010	11/16/93
Cadmium	0.0050	U	0.0050	6010	11/16/93
Chromium	0.091		0.010	6010	11/16/93
Copper	0.025	U	0.025	6010	11/16/93
Iron	2.1		0.10	6010	11/16/93
Nickel	0.040	U	0.040	6010	11/16/93
Lead	0.0077		0.0030	7421	11/11/93
Mercury	0.00020	U	0.00020	7471	11/08/93
Silver	0.010	U	0.010	6010	11/16/93
Zinc	0.020	U	0.020	6010	11/16/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1019
SAMPLE DATE: 10/21/93 14:20:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1019**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.8	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.9	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
l-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.0	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1019**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
ɜ(2-Chloroisopropyl)ether	0.330	U	0.330
·Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporti Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.13	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1019**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	75	23 - 120
2-Fluorobiphenyl	79	30 - 115
Terphenyl-D14	83	18 - 137
Phenol-D5	65	24 - 113
2-Fluorophenol	63	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1019**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **117.647**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	7.8	N	1.2	7060	11/09/93
Aluminum	7400	N*	24	6010	11/23/93
Barium	3400	N*	24	6010	11/23/93
Beryllium	1.1		0.59	6010	11/23/93
Cadmium	0.85		0.59	6010	11/23/93
Chromium	11		1.2	6010	11/23/93
Copper	14		2.9	6010	11/23/93
Iron	16000	N*	12	6010	11/23/93
Nickel	34	N	4.7	6010	11/23/93
Lead	18	N	1.4	7421	11/09/93
Mercury	0.024	U	0.024	7471	11/06/93
Silver	1.2	U	1.2	6010	11/23/93
Zinc	17		2.4	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Duplicate analysis outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES, affecting all soil samples in batch. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1019-MS
SAMPLE DATE: 10/21/93 14:20:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		88		% REC	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1019-MS**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: % **REC**

	Result		Result
1,1-Dichloroethene	95	Trichloroethene	81
		Benzene	98
		Toluene	99
		Chlorobenzene	101

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1019-MS**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	70	Acenaphthene	96
2-Chlorophenol	80	4-Nitrophenol	85
1,4-Dichlorobenzene	68	2,4-Dinitrotoluene	80
N-Nitroso-di-n-propylamine	86	Pentachlorophenol	79
1,2,4-Trichlorobenzene	82	Pyrene	92
4-Chloro-3-methylphenol	85		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	79	30 - 115
Terphenyl-D14	82	18 - 137
Phenol-D5	67	24 - 113
2-Fluorophenol	70	25 - 121
2,4,6-Tribromophenol	81	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1019-MS**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **88.4955**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	139			7060	11/09/93
Aluminum	973		18	6010	11/23/93
Barium	0		18	6010	11/23/93
Beryllium	85		0.44	6010	11/23/93
Cadmium	84		0.44	6010	11/23/93
Chromium	90		0.88	6010	11/23/93
Copper	82		2.2	6010	11/23/93
Iron	0		8.8	6010	11/23/93
Nickel	74		3.5	6010	11/23/93
Lead	0			7421	11/09/93
Mercury	104			7471	11/06/93
Silver	85		0.88	6010	11/23/93
Zinc	86		1.8	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium, iron and nickel analysis by ICPES, affecting all soil samples in batch. LCS / LCSD and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: **A1019-MSD**
SAMPLE DATE: **10/21/93 14:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		94		% REC	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1019-MSD**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	93	Trichloroethene	82
		Benzene	99
		Toluene	100
		Chlorobenzene	103

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1019-MSD**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	74	Acenaphthene	95
2-Chlorophenol	84	4-Nitrophenol	77
1,4-Dichlorobenzene	72	2,4-Dinitrotoluene	79
N-Nitroso-di-n-propylamine	85	Pentachlorophenol	73
1,2,4-Trichlorobenzene	83	Pyrene	96
4-Chloro-3-methylphenol	86		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	73	23 - 120
2-Fluorobiphenyl	76	30 - 115
Terphenyl-D14	82	18 - 137
Phenol-D5	68	24 - 113
2-Fluorophenol	70	25 - 121
2,4,6-Tribromophenol	75	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:
U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1019-MSD**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **104.166**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	141			7060	11/09/93
Aluminum	808		21	6010	11/23/93
Barium	0		21	6010	11/23/93
Beryllium	85		0.52	6010	11/23/93
Cadmium	83		0.52	6010	11/23/93
Chromium	90		1.0	6010	11/23/93
Copper	82		2.6	6010	11/23/93
Iron	0		10	6010	11/23/93
Nickel	74		4.2	6010	11/23/93
Lead	0			7421	11/09/93
Mercury	107			7471	11/06/93
Silver	85		1.0	6010	11/23/93
Zinc	85		2.1	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike duplicate outside control limits due to matrix interference on aluminum, barium, iron and nickel analysis by ICPES, affecting all soil samples in batch. LCS / LCSD and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1020
SAMPLE DATE: 10/21/93 14:30:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1020**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.7	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.1	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	3.4	J	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1020**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.20	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1020**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	78	23 - 120
2-Fluorobiphenyl	82	30 - 115
Terphenyl-D14	83	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	71	25 - 121
2,4,6-Tribromophenol	78	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1020**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **87.7192**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	1.1	7060	11/09/93
Aluminum	5200	N*	18	6010	11/23/93
Barium	80	N*	18	6010	11/23/93
Beryllium	0.58		0.44	6010	11/23/93
Cadmium	0.44	U	0.44	6010	11/23/93
Chromium	6.5		0.88	6010	11/23/93
Copper	4.7		2.2	6010	11/23/93
Iron	4700	N*	8.8	6010	11/23/93
Nickel	9.4	N	3.5	6010	11/23/93
Lead	5.8	N	0.32	7421	11/09/93
Mercury	0.021	U	0.021	7471	11/06/93
Silver	0.88	U	0.88	6010	11/23/93
Zinc	13		1.8	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: **A1021**
SAMPLE DATE: **10/21/93 14:35:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1021**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.0	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.2	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	3.4	J	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.2	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	98	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1021**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 802-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1021**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	76	23 - 120
2-Fluorobiphenyl	76	30 - 115
Terphenyl-D14	80	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	71	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512)892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1021**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **90.0900**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.0	UN	1.0	7060	11/09/93
Aluminum	6700	N*	18	6010	11/23/93
Barium	630	N*	18	6010	11/23/93
Beryllium	0.72		0.45	6010	11/23/93
Cadmium	0.45	U	0.45	6010	11/23/93
Chromium	10		0.90	6010	11/23/93
Copper	6.2		2.3	6010	11/23/93
Iron	10000	N*	9.0	6010	11/23/93
Nickel	11	N	3.6	6010	11/23/93
Lead	5.4	N	0.31	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/06/93
Silver	0.90	U	0.90	6010	11/23/93
Zinc	14		1.8	6010	11/23/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1500
SAMPLE DATE: 10/21/93 11:18:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1500**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.1	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.3	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.4	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1500**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/08/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.26	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1500**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	79	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	65	24 - 113
2-Fluorophenol	56	25 - 121
2,4,6-Tribromophenol	95	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1500**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **568.181**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	5.4	UN	5.4	7060	11/10/93
Aluminum	15000	N*	110	6010	11/23/93
Barium	1100	N*	110	6010	11/23/93
Beryllium	2.8	U	2.8	6010	11/23/93
Cadmium	2.8	U	2.8	6010	11/23/93
Chromium	13		5.7	6010	11/23/93
Copper	14	U	14	6010	11/23/93
Iron	13000	N*	57	6010	11/23/93
Nickel	23	N	23	6010	11/23/93
Lead	4.0	N	0.33	7421	11/09/93
Mercury	0.021	U	0.021	7471	11/06/93
Silver	5.7	U	5.7	6010	11/23/93
Zinc	30		11	6010	11/23/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1501
SAMPLE DATE: 10/21/93 12:57:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1501**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.7	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.1	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.2	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	105	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1501**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/08/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.084	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1501**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	92	18 - 137
Phenol-D5	64	24 - 113
2-Fluorophenol	55	25 - 121
2,4,6-Tribromophenol	100	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1501**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **104.166**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.9	N	0.93	7060	11/09/93
Aluminum	9900	N*	21	6010	11/23/93
Barium	550	N*	21	6010	11/23/93
Beryllium	1.1		0.52	6010	11/23/93
Cadmium	0.52	U	0.52	6010	11/23/93
Chromium	11		1.0	6010	11/23/93
Copper	5.9		2.6	6010	11/23/93
Iron	11000	N*	10	6010	11/23/93
Nickel	7.3	N	4.2	6010	11/23/93
Lead	8.5	N	1.1	7421	11/09/93
Mercury	0.024	U	0.024	7471	11/06/93
Silver	1.0	U	1.0	6010	11/23/93
Zinc	13		2.1	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1502
SAMPLE DATE: 10/21/93 14:44:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1502**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	35	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1.1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	7.0	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	105	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1502**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/08/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.05	J	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.18	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1502**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	71	23 - 120
2-Fluorobiphenyl	82	30 - 115
Terphenyl-D14	90	18 - 137
Phenol-D5	62	24 - 113
2-Fluorophenol	52	25 - 121
2,4,6-Tribromophenol	108	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1502**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **90.9090**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.1	N	1.1	7060	11/09/93
Aluminum	10000	N*	18	6010	11/23/93
Barium	330	N*	18	6010	11/23/93
Beryllium	0.91		0.45	6010	11/23/93
Cadmium	0.45	U	0.45	6010	11/23/93
Chromium	12		0.91	6010	11/23/93
Copper	5.7		2.3	6010	11/23/93
Iron	11000	N*	9.1	6010	11/23/93
Nickel	8.9	N	3.6	6010	11/23/93
Lead	8.4	N	0.32	7421	11/09/93
Mercury	0.021	U	0.021	7471	11/06/93
Silver	0.91	U	0.91	6010	11/23/93
Zinc	21		1.8	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1503
SAMPLE DATE: 10/21/93 14:44:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1503**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.8	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	28	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1.1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.3	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	106	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: ABN HSL GC/MS Extractables
METHOD REFERENCE: EPA8270

SAMPLE ID: A1503
SAMPLE DATE: 10/21/93
SAMPLE MATRIX: SOIL
EXTRACTION DATE: 10/29/93
ANALYSIS DATE: 11/08/93
DILUTION FACTOR: 0.033
UNITS: MG/KG

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.21	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1503**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	68	23 - 120
2-Fluorobiphenyl	82	30 - 115
Terphenyl-D14	85	18 - 137
Phenol-D5	60	24 - 113
2-Fluorophenol	51	25 - 121
2,4,6-Tribromophenol	99	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1503**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **111.111**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.6	N	1.2	7060	11/09/93
Aluminum	13000	N*	22	6010	11/23/93
Barium	470	N*	22	6010	11/23/93
Beryllium	1.1		0.56	6010	11/23/93
Cadmium	0.56	U	0.56	6010	11/23/93
Chromium	14		1.1	6010	11/23/93
Copper	16		2.8	6010	11/23/93
Iron	13000	N*	11	6010	11/23/93
Nickel	11	N	4.4	6010	11/23/93
Lead	6.6	N	0.35	7421	11/09/93
Mercury	0.024	U	0.024	7471	11/06/93
Silver	1.1	U	1.1	6010	11/23/93
Zinc	20		2.2	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1504
SAMPLE DATE: 10/21/93 15:05:00
SAMPLE MATRIX: WATER

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.010	MG/L	10/22/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1504**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	7.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	91	88 - 110
BROMOFLUOROBENZENE	94	86 - 115
1,2-DICHLOROETHANE-D4	100	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1504**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1504**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	68	35 - 114
2-Fluorobiphenyl	71	43 - 116
Terphenyl-D14	84	33 - 141
Phenol-D5	40	10 - 94
2-Fluorophenol	60	21 - 100
2,4,6-Tribromophenol	78	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1504**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
DILUTION FACTOR (6010): **1.00000**
UNITS: **mg/L**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	11/16/93
Barium	0.20	U	0.20	6010	11/16/93
Beryllium	0.0050	U	0.0050	6010	11/16/93
Cadmium	0.0050	U	0.0050	6010	11/16/93
Chromium	0.010	U	0.010	6010	11/16/93
Copper	0.025	U	0.025	6010	11/16/93
Iron	0.10	U	0.10	6010	11/16/93
Nickel	0.040	U	0.040	6010	11/16/93
Lead	0.0030	U	0.0030	7421	11/11/93
Mercury	0.00020	U	0.00020	7471	11/08/93
Silver	0.010	U	0.010	6010	11/16/93
Zinc	0.020	U	0.020	6010	11/16/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1505
SAMPLE DATE: 10/21/93 16:00:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1505**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	3.2	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
l-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.7	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	93	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1505**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/08/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
;(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporti Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.13	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1505**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	66	23 - 120
2-Fluorobiphenyl	81	30 - 115
Terphenyl-D14	82	18 - 137
Phenol-D5	60	24 - 113
2-Fluorophenol	50	25 - 121
2,4,6-Tribromophenol	96	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1505**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **100.000**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.8	N	1.0	7060	11/09/93
Aluminum	8300	N*	20	6010	11/23/93
Barium	370	N*	20	6010	11/23/93
Beryllium	0.87		0.50	6010	11/23/93
Cadmium	0.50	U	0.50	6010	11/23/93
Chromium	11		1.0	6010	11/23/93
Copper	5.5		2.5	6010	11/23/93
Iron	9500	N*	10	6010	11/23/93
Nickel	9.1	N	4.0	6010	11/23/93
Lead	6.4	N	0.31	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/06/93
Silver	1.0	U	1.0	6010	11/23/93
Zinc	18		2.0	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1506
SAMPLE DATE: 10/21/93 16:50:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1506**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.6	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.8	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1506**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportir Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
;(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.082	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1506**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	58	23 - 120
2-Fluorobiphenyl	68	30 - 115
Terphenyl-D14	69	18 - 137
Phenol-D5	52	24 - 113
2-Fluorophenol	65	25 - 121
2,4,6-Tribromophenol	56	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1506**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **104.166**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.4	N	0.93	7060	11/09/93
Aluminum	7200	N*	21	6010	11/23/93
Barium	130	N*	21	6010	11/23/93
Beryllium	1.1		0.52	6010	11/23/93
Cadmium	0.52	U	0.52	6010	11/23/93
Chromium	11		1.0	6010	11/23/93
Copper	9.0		2.6	6010	11/23/93
Iron	10000	N*	10	6010	11/23/93
Nickel	17	N	4.2	6010	11/23/93
Lead	8.6	N	1.1	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/06/93
Silver	1.0	U	1.0	6010	11/23/93
Zinc	20		2.1	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: A1507
SAMPLE DATE: 10/21/93 17:08:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1507**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.5	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.5	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	110	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1507**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/29/93**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportir Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.27	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1507**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	73	23 - 120
2-Fluorobiphenyl	85	30 - 115
Terphenyl-D14	83	18 - 137
Phenol-D5	64	24 - 113
2-Fluorophenol	84	25 - 121
2,4,6-Tribromophenol	66	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1507**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **116.279**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.6	N	1.1	7060	11/09/93
Aluminum	9000	N*	23	6010	11/23/93
Barium	76	N*	23	6010	11/23/93
Beryllium	1.1		0.58	6010	11/23/93
Cadmium	0.58	U	0.58	6010	11/23/93
Chromium	13		1.2	6010	11/23/93
Copper	9.8		2.9	6010	11/23/93
Iron	13000	N*	12	6010	11/23/93
Nickel	20	N	4.7	6010	11/23/93
Lead	8.6	N	0.33	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/06/93
Silver	1.2	U	1.2	6010	11/23/93
Zinc	25		2.3	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1508**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1.1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	93	88 - 110
BROMOFLUOROBENZENE	98	86 - 115
1,2-DICHLOROETHANE-D4	102	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: LAB BLANK #1
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.1	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	102	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 10/29/93
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 0.033
UNITS: MG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
ɜ(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
·Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.14	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	80	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	66	25 - 121
2,4,6-Tribromophenol	78	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **1.00000**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/09/93
Aluminum	0.20	U	0.20	6010	11/23/93
Barium	0.20	U	0.20	6010	11/23/93
Beryllium	0.0050	U	0.0050	6010	11/23/93
Cadmium	0.0050	U	0.0050	6010	11/23/93
Chromium	0.010	U	0.010	6010	11/23/93
Copper	0.025	U	0.025	6010	11/23/93
Iron	0.10	U	0.10	6010	11/23/93
Nickel	0.040	U	0.040	6010	11/23/93
Lead	0.0030	U	0.0030	7421	11/09/93
Mercury	0.00020	U	0.00020	7471	11/06/93
Silver	0.010	U	0.010	6010	11/23/93
Zinc	0.020	U	0.020	6010	11/23/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.7	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.3	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.6	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #3**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/04/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	3.2	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	99	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-300

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
TPH - IR		1.0U	1.0	MG/L	11/05/93	EPA418_1
Chromium VI		0.010U	0.010	MG/L	10/22/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-300

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 10/31/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	11		10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
'-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	88 - 110
BROMOFLUOROBENZENE	95	86 - 115
1,2-DICHLOROETHANE-D4	101	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: 10/29/93
ANALYSIS DATE: 11/04/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	1.4	J	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
·(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	68	35 - 114
2-Fluorobiphenyl	75	43 - 116
Terphenyl-D14	89	33 - 141
Phenol-D5	65	10 - 94
2-Fluorophenol	67	21 - 100
2,4,6-Tribromophenol	67	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/L**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	11/16/93
Barium	0.20	U	0.20	6010	11/16/93
Beryllium	0.0050	U	0.0050	6010	11/16/93
Cadmium	0.0050	U	0.0050	6010	11/16/93
Chromium	0.010	U	0.010	6010	11/16/93
Copper	0.025	U	0.025	6010	11/16/93
Iron	0.10	U	0.10	6010	11/16/93
Nickel	0.040	U	0.040	6010	11/16/93
Lead	0.0030	U	0.0030	7421	11/11/93
Mercury	0.00020	U	0.00020	7471	11/08/93
Silver	0.010	U	0.010	6010	11/16/93
Zinc	0.020	U	0.020	6010	11/16/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **TPH - IR** TEST CODE **418_1**

418_1	Method 418.1: Total Recoverable Petroleum Hydorcarbons, infrared spectrophotmetric method. Methods for the chemical analysis of water and wastes. USEPA.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water. Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **ICPES Digestion - Water** TEST CODE **Z3005**

Water Digestion	Method 3005A, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Digestion procedure for the preparation of surface and ground water samples for analysis by flame atomic absorption spectroscopy and inductively coupled plasma spectroscopy. The procedure determines total recoverable or dissolved metals.

TEST NAME **GFAA Digestion - Water** TEST CODE **Z3020**

Water Digestion	Method 3020, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace.

Company: IT CORPORATION
Date: 12/06/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-300

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

409832.03-01

Reference Document No. 314070
Page 1 of 2

Project Name/No. [1] TAFB-5001
Sample Team Members [2] Andrew Gordon, Kyle Kirschenmann
Profit Center No. [3] 3527
Project Manager [4] Jimmy Taylor
Purchase Order No. [6] 409832.03 D.O. 5001
Required Report Date [11] 15 Days

Samples Shipment Date [7] 10-21-93
Lab Destination [8] ITAS-Austin
Lab Contact [9] Karmen Deane
Project Contact/Phone [12] Dan McGregor 405-736-2260
Carrier/Waybill No. [13] FX 846075542 2

Bill to: [5] 409832.03-01 D.O. 5001
Report to: [10] Jim Jennings & IT-Austin-ES

White: To accompany samples
Yellow: Field copy

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Preservative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1013	water	10-19-93 1700	clear glass	40ml	COOL-HCl	8240	Good 1°C	83244100A
A1014	Soil	10-21-93 0800		125	COOL	8240	[illegible] 10/22/93	
A1014		10-21-93 0800		500		8270/6000		
A1015		10-21-93 0820		125		8240		
A1015		10-21-93 0820		500		8270/6000		
A1016		10-21-93 0825		125		8240		
A1016		10-21-93 0825		500		8270/6000		

FOR LAB USE ONLY

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☐

QC Level: [27]
I ☒ II ☐ III ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) (IT)	Date: 10-21-93 Time: 1800	1. Received by [28] (Signature/Affiliation) IT	Date: 10/22/93 Time: 0857
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

*See back of form for special instructions.

MCA 3/15/91

B310500

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 314070

Page 2 of 2

Project Name TAFB-5001 Project No. 409832.03.01-5001 Samples Shipment Date 10-21-93

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1017	Soil	10-21-93 1410	clear glass	125ml	COOL	8240	Good 1°C	
A1017	Soil	10-21-93 1410		500ml	COOL	8270/6000	Th 10/22/93	
A1018	Water	10-21-93 1415	clear glass	40ml	HCl COOL	8240	See Rvrs	
A1018	Water	10-21-93 1415	Poly	250ml	NO_3 COOL	6000		
A1018	Water	10-21-93 1415	Amber Glass	1 l	H_2SO_4 COOL	8270		
A1019 (ms/msd)	Soil	10-21-93 1420	clear Glass	125	COOL	8240		
A1019 (ms/msd)		10-21-93 1420		2x 500		8270/6000		
A1020		10-21-93 1430		125		8240		
A1020		10-21-93 1430		500		8270/6000		
A1021		10-21-93 1435		125		8240		
A1021	X	10-21-93 1435	X	500	X	8270/6000		

White: To accompany samples Yellow: Field copy

*See back of form for special instructions.

MCA 3/15/91

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 314065
Page 1 of 2

Project Name/No. [1] TAFD 409832
Sample Team Members [2] L. Rodriguez/M. Wilson
Profit Center No. [3] 3527
Project Manager [4] Jimmy Taylor
Purchase Order No. [6] 409832.003
Required Report Date [11] NTAT

Samples Shipment Date [7] 10/21/93
Lab Destination [8] IT - AUSTIN
Lab Contact [9] Karmen Dean (405)336 2220
Project Contact/Phone [12] Dan McGregor
Carrier/Waybill No. [13] FEDEX 8460755483

Bill to: [5] 409832.03 D.O. 5001
Report to: [10] Tim Jennings IT-Austin

White: To accompany samples
Yellow: Field copy

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A 1500	SB-015 Soil	10/21/93 1118	Clear glass	125ml	cool	8240 VOA	Good 1°C	
A 1500	SB-015 Soil	10/21/93 1118	Clear glass	500ml	cool	8270 6010/7000		
A 1501	SB-016 Soil	10/21/93 1257	Clear glass	125ml	"	8240 VOA		
A 1501	SB-016 Soil	10/21/93 1257	"	500ml	"	8270 6010/7000		
A 1502	SB-017 Soil	10/21/93 1444	"	125ml	"	8240 VOA		
A 1502	SB-017 Soil	10/21/93 1444	"	500ml	"	8270 6010/7000		
A 1503	SB-017 Duplicate	10/21/93 1444	"	125ml	"	8240 VOA		
A 1503	SB-017 Duplicate	10/21/93 1444	"	500ml	"	8270 6010/7000		

FOR LAB USE ONLY

FOR LAB USE ONLY

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [X] MW 10/21/93 Unknown [X]

Sample Disposal: [25]
Return to Client [ ] Disposal by Lab [✓] Archive ____ (mos.)

Turnaround Time Required: [26]
Normal [✓] Rush [ ]

QC Level: [27]
I. [✓] II. [ ] III. [ ] Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Matthew S. Wilson IT EES Austin	Date: 10/21/93 Time: 1921	1. Received by [28] (Signature/Affiliation) IT	Date: 10/22/93 Time: 0837
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

*See back of form for special instructions.

MCA 3/15/91

B510300

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 314065
Page 2 of 2

Project Name Tinker 5001 Project No. 409832 Samples Shipment Date 10/21/93

ONE CONTAINER PER LINE

Sample[14] Number	Sample[15] Description/Type	Date/Time[16] Collected	Container[17] Type	Sample[18] Volume	Pre-[19] servative	Requested Testing[20] Program	Condition on[21] Receipt	Disposal[22] Record No.
A 1504	Eqpt. Rinsate	1505 10/21/93	Clear glass	40ml	HCl	8240 VOA	Good 1°C	B3244100 A
A 1504	" "	10/21/93 1505	Plastic	250ml	HNO_3	6010/7000 Metals		FOR LAB USE ONLY
A 1504	" "	10/21/93 1505	Amber glass	2.5L	cool	8270 SVOC		
A 1505	SB-018 Soil	10/21/93 1600	Clear glass	125ml	Cool	8240 VOC	RVR	
A 1505	SB-018 Soil	10/21/93 1600	Clear glass	500ml	Cool	6010/7000 8270		FOR LAB USE ONLY
A 1506	SB-019 Soil	10/21/93 1650	Clear glass	125ml	"	8240 VOC		
A 1506	SB-019 Soil	10/21/93 1650	"	500ml	"	8270 SVOC 6010/7000 metals		FOR LAB USE ONLY
A 1507	SB-020 Soil	10/21/93 1708	"	125ml	"	8240 VOC		
A 1507	SB-020 Soil	10/21/93 1708	"	500ml	"	8270 SVOC 6010/7000 metals		
A 1508	Trip Blank	10/19/93 1700	Clear glass	40ml	HCl	8240 VOC		B3244100 A

White: To accompany samples Yellow: Field copy

*See back of form for special instructions.

MCA 3/15/91

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1014

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	100
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	102
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	100

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1015

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B310300-21B	11053050F1	03/05/94	11/09/93	97
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	114
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	97

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1016

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	97
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	109
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	97

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1017

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	102
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	116
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	408

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1018

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
06B						
	Arsenic	B310300-24B	110930201	11/09/93	11/12/93	1.0
	Mercury	B310300-24B	1108HGAA1	11/08/93	11/08/93	1.0
	418_1	B310300-24B	1103TPHIR1	11/03/93	11/05/93	1.0
	Lead	B310300-24B	110930201	11/09/93	11/11/93	1.0

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1019

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	115
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	120
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	460

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1019-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	430
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	106
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	430

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1019-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
09B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	377
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	112
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	377

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1020

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	105
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	103
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	105

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1021

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
11B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	103
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	109
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	103

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1500

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
12B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/10/93	543
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	104
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	109

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1501

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
13B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	92.6
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	118
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	370

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1502

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
14B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	106
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	104
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	106

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1503

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
15B						
	Arsenic	B310300-21B	11053050F1	03/25/94	11/09/93	116
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	119
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	116

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1504

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
16B						
	Arsenic	B310300-24B	110930201	11/09/93	11/12/93	1.0
	Chromium VI	B310300-24B	1022CR_VI1	10/22/93	10/22/93	1.0
	Mercury	B310300-24B	1108HGAA1	11/08/93	11/08/93	1.0
	Lead	B310300-24B	110930201	11/09/93	11/11/93	1.0

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1505

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
17B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	104
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	116
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	104

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1506

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
18B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	92.6
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	111
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	370

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : A1507

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
19B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	111
	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	112
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	111

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : LAB BLANK #1

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
21B						
	Arsenic	B310300-21B	11053050F1	11/05/93	11/09/93	1.0
	Chromium VI	B310300-21B	1102CR_VI1	11/02/93	11/02/93	1.0
	Mercury	B310300-21B	1106HGAA1	11/06/93	11/06/93	1.0
	Lead	B310300-21B	11053050F1	11/05/93	11/09/93	1.0

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
24B						
	Arsenic	B310300-24B	110930201	11/09/93		1.0
	Chromium VI	B310300-24B	1122CR_VI1	10/22/93	10/22/93	1.0
	Mercury	B310300-21B	1108HGAA1	11/08/93		1.0
	Lead	B310300-24B	110930201	11/09/93		1.0

Auxiliary Data Summary 12/03/93

Work order : B310300 Sample ID : LAB BLANK #2

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
25A	Chromium VI	B310300-25A	1103CR_VI1	11/03/93	11/03/93	1.0

TPJ

Routed to KH, CF, TL 12/9/93

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED DEC - 9 1992

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/04/93

Work Order: B3-10-297

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O. 5001 409832-003-01
Date Received: 10/23/93
Number of Samples: 26
Sample Type: SOIL/WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1022	B3-10-297-01
A1023	B3-10-297-02
A1024	B3-10-297-03
A1025	B3-10-297-04
A1026	B3-10-297-05
A1027	B3-10-297-06
A1028	B3-10-297-07
A1028-MS	B3-10-297-08
A1028-MSD	B3-10-297-09
A1029	B3-10-297-10
A1030	B3-10-297-11
A1031	B3-10-297-12
A1032	B3-10-297-13

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
A1033	B3-10-297-14
A1034	B3-10-297-15
A1035	B3-10-297-16
A1036	B3-10-297-17
A1037	B3-10-297-18
A1038	B3-10-297-19
A1039	B3-10-297-20
A1040	B3-10-297-21
LAB BLANK	B3-10-297-22
LAB BLANK#2	B3-10-297-23
LAB BLANK#3	B3-10-297-24
LAB BLANK#4	B3-10-297-25
LAB BLANK	B3-10-297-26

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1022**
SAMPLE DATE: **10/22/93 07:40:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1022**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	14	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	6	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1022**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.033	J	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.33	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1022**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	84	23 - 120
2-Fluorobiphenyl	100	30 - 115
Terphenyl-D14	102	18 - 137
Phenol-D5	80	24 - 113
2-Fluorophenol	78	25 - 121
2,4,6-Tribromophenol	92	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1022**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **105.263**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	5.2	N	1.0	7060	11/10/93
Aluminum	17000	N	21	6010	11/12/93
Barium	230	N*	21	6010	11/12/93
Beryllium	0.89		0.53	6010	11/12/93
Cadmium	0.83		0.53	6010	11/12/93
Chromium	19		1.1	6010	11/12/93
Copper	7.4		2.6	6010	11/12/93
Iron	15000	N	11	6010	11/12/93
Nickel	15		4.2	6010	11/12/93
Lead	7.7	N	0.31	7421	11/10/93
Mercury	0.022	U	0.022	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	24		2.1	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1023
SAMPLE DATE: 10/22/93 07:45:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1023**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.9	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.1	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	107	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1023**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.12	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1023**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	76	23 - 120
2-Fluorobiphenyl	96	30 - 115
Terphenyl-D14	98	18 - 137
Phenol-D5	71	24 - 113
2-Fluorophenol	69	25 - 121
2,4,6-Tribromophenol	77	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1023**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **105.263**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	6.0	N	1.1	7060	11/10/93
Aluminum	17000	N	21	6010	11/12/93
Barium	310	N*	21	6010	11/12/93
Beryllium	0.95		0.53	6010	11/12/93
Cadmium	0.70		0.53	6010	11/12/93
Chromium	35		1.1	6010	11/12/93
Copper	9.4		2.6	6010	11/12/93
Iron	17000	N	11	6010	11/12/93
Nickel	22		4.2	6010	11/12/93
Lead	6.1	N	0.32	7421	11/10/93
Mercury	0.022	U	0.022	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	26		2.1	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1024**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	6.7	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
`-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	93	88 - 110
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	96	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1025**
SAMPLE DATE: **10/22/93 07:55:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1025**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	8.9	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.7	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1025**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.033	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1025**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	94	30 - 115
Terphenyl-D14	98	18 - 137
Phenol-D5	79	24 - 113
2-Fluorophenol	72	25 - 121
2,4,6-Tribromophenol	84	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1025**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **102.040**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.0	N	1.1	7060	11/10/93
Aluminum	11000	N	20	6010	11/12/93
Barium	430	N*	20	6010	11/12/93
Beryllium	0.72		0.51	6010	11/12/93
Cadmium	0.51	U	0.51	6010	11/12/93
Chromium	16		1.0	6010	11/12/93
Copper	7.6		2.6	6010	11/12/93
Iron	14000	N	10	6010	11/12/93
Nickel	15		4.1	6010	11/12/93
Lead	5.9	N	0.32	7421	11/10/93
Mercury	0.024	U	0.024	7471	11/10/93
Silver	1.0	U	1.0	6010	11/12/93
Zinc	20		2.0	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1026**
SAMPLE DATE: **10/22/93 08:00:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1026**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.4	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.5	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
ˆ 1-Dichloroethane	15		5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	3.5	J	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.1	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1026**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1026**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	92	30 - 115
Terphenyl-D14	93	18 - 137
Phenol-D5	77	24 - 113
2-Fluorophenol	74	25 - 121
2,4,6-Tribromophenol	82	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1026**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **88.4955**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	0.98	7060	11/10/93
Aluminum	13000	N	18	6010	11/12/93
Barium	510	N*	18	6010	11/12/93
Beryllium	0.77		0.44	6010	11/12/93
Cadmium	0.44	U	0.44	6010	11/12/93
Chromium	17		0.88	6010	11/12/93
Copper	8.5		2.2	6010	11/12/93
Iron	14000	N	8.8	6010	11/12/93
Nickel	15		3.5	6010	11/12/93
Lead	5.7	N	0.29	7421	11/10/93
Mercury	0.020	U	0.020	7471	11/10/93
Silver	0.88	U	0.88	6010	11/12/93
Zinc	21		1.8	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1027
SAMPLE DATE: 10/22/93 09:45:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1027**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	9.6	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	140	B	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	9.1		5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	9.5	J	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	17	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	2.8	J	5
Carbon tetrachloride	5	U	5	Ethylbenzene	4.2	J	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	22		5

Surrogates	% Recovery	Limits
TOLUENE-D8	108	81 - 117
BROMOFLUOROBENZENE	91	74 - 121
1,2-DICHLOROETHANE-D4	107	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1027**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.059	J	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1027**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	100	30 - 115
Terphenyl-D14	108	18 - 137
Phenol-D5	80	24 - 113
2-Fluorophenol	76	25 - 121
2,4,6-Tribromophenol	92	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1027**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **108.695**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.8	N	1.0	7060	11/10/93
Aluminum	18000	N	22	6010	11/12/93
Barium	300	N*	22	6010	11/12/93
Beryllium	1.0		0.54	6010	11/12/93
Cadmium	0.97		0.54	6010	11/12/93
Chromium	21		1.1	6010	11/12/93
Copper	8.5		2.7	6010	11/12/93
Iron	15000	N	11	6010	11/12/93
Nickel	15		4.3	6010	11/12/93
Lead	11	N	1.2	7421	11/10/93
Mercury	0.023	U	0.023	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	29		2.2	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1028
SAMPLE DATE: 10/22/93 09:55:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1028**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.3	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.8	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.1	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1028**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 10/27/93
ANALYSIS DATE: 10/31/93
DILUTION FACTOR: 0.033
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.053	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1028**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	92	23 - 120
2-Fluorobiphenyl	98	30 - 115
Terphenyl-D14	102	18 - 137
Phenol-D5	79	24 - 113
2-Fluorophenol	78	25 - 121
2,4,6-Tribromophenol	83	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1028**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **114.942**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	5.4	N	1.1	7060	11/10/93
Aluminum	15000	N	23	6010	11/12/93
Barium	57	N*	23	6010	11/12/93
Beryllium	0.87		0.57	6010	11/12/93
Cadmium	0.57	U	0.57	6010	11/12/93
Chromium	20		1.1	6010	11/12/93
Copper	6.9		2.9	6010	11/12/93
Iron	13000	N	11	6010	11/12/93
Nickel	18		4.6	6010	11/12/93
Lead	7.4	N	0.32	7421	11/10/93
Mercury	0.024	U	0.024	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	24		2.3	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike recoveries, MS/MSD % RPD and duplicate %RPD were outside control limits for barium due to sample inconsistency. LCS/LCSD recovery and % RPD were acceptable.

Matrix spike recoveries were outside control limits for aluminum and iron. The native sample concentration was greater than 0.1 %, therefore, no spike recovery was required.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1028-MS**
SAMPLE DATE: **10/22/93 09:55:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		108		% REC	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1028-MS**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	96	Trichloroethene	84
		Benzene	98
		Toluene	105
		Chlorobenzene	105

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1028-MS**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/09/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	73	Acenaphthene	101
2-Chlorophenol	70	4-Nitrophenol	67
1,4-Dichlorobenzene	63	2,4-Dinitrotoluene	80
N-Nitroso-di-n-propylamine	82	Pentachlorophenol	72
1,2,4-Trichlorobenzene	79	Pyrene	90
4-Chloro-3-methylphenol	82		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	78	23 - 120
2-Fluorobiphenyl	98	30 - 115
Terphenyl-D14	90	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	77	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1028-MS**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **114.942**
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	38	7060	11/10/93
Aluminum	820	6010	11/12/93
Barium	160	6010	11/12/93
Beryllium	91	6010	11/12/93
Cadmium	93	6010	11/12/93
Chromium	94	6010	11/12/93
Copper	95	6010	11/12/93
Iron	910	6010	11/12/93
Nickel	91	6010	11/12/93
Lead	19	7421	11/10/93
Mercury	115	7471	11/10/93
Silver	90	6010	11/12/93
Zinc	92	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike recoveries, MS/MSD % RPD and duplicate %RPD were outside control limits for barium due to sample inconsistency. LCS/LCSD recovery and % RPD were acceptable.

Matrix spike recoveries were outside control limits for aluminum and iron. The native sample concentration was greater than 0.1 %, therefore, no spike recovery was required.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1028-MSD**
SAMPLE DATE: **10/22/93 09:55:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		114		% REC	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1028-MSD**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	100	Trichloroethene	85
		Benzene	98
		Toluene	104
		Chlorobenzene	102

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	93	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1028-MSD**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/09/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	68	Acenaphthene	94
2-Chlorophenol	67	4-Nitrophenol	61
1,4-Dichlorobenzene	57	2,4-Dinitrotoluene	77
N-Nitroso-di-n-propylamine	74	Pentachlorophenol	67
1,2,4-Trichlorobenzene	73	Pyrene	96
4-Chloro-3-methylphenol	78		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	71	23 - 120
2-Fluorobiphenyl	97	30 - 115
Terphenyl-D14	95	18 - 137
Phenol-D5	67	24 - 113
2-Fluorophenol	61	25 - 121
2,4,6-Tribromophenol	83	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1028-MSD**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 99.0099
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	64	7060	11/10/93
Aluminum	720	6010	11/12/93
Barium	130	6010	11/12/93
Beryllium	89	6010	11/12/93
Cadmium	91	6010	11/12/93
Chromium	91	6010	11/12/93
Copper	91	6010	11/12/93
Iron	310	6010	11/12/93
Nickel	88	6010	11/12/93
Lead	16	7421	11/10/93
Mercury	108	7471	11/10/93
Silver	87	6010	11/12/93
Zinc	89	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike recoveries, MS/MSD % RPD and duplicate %RPD were outside control limits for barium due to sample inconsistency. LCS/LCSD recovery and % RPD were acceptable.

Matrix spike recoveries were outside control limits for aluminum and iron. The native sample concentration was greater than 0.1 %, therefore, no spike recovery was required.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1029**
SAMPLE DATE: **10/22/93 10:00:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1029**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.7	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	1.4	J	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1029**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportir Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1029**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	72	23 - 120
2-Fluorobiphenyl	90	30 - 115
Terphenyl-D14	104	18 - 137
Phenol-D5	69	24 - 113
2-Fluorophenol	64	25 - 121
2,4,6-Tribromophenol	80	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1029**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **107.526**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.9	N	1.0	7060	11/10/93
Aluminum	12000	N	22	6010	11/12/93
Barium	210	N*	22	6010	11/12/93
Beryllium	0.87		0.54	6010	11/12/93
Cadmium	0.72		0.54	6010	11/12/93
Chromium	15		1.1	6010	11/12/93
Copper	8.4		2.7	6010	11/12/93
Iron	14000	N	11	6010	11/12/93
Nickel	14		4.3	6010	11/12/93
Lead	4.7	N	0.31	7421	11/10/93
Mercury	0.024	U	0.024	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	24		2.2	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1030
SAMPLE DATE: 10/22/93 10:10:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1030**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	1.3	J	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.4	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	6.1		5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	0.5	J	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1030**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1030**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	95	30 - 115
Terphenyl-D14	106	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	66	25 - 121
2,4,6-Tribromophenol	84	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1030**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **114.942**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.1	N	0.98	7060	11/10/93
Aluminum	13000	N	23	6010	11/12/93
Barium	960	N*	23	6010	11/12/93
Beryllium	1.0		0.57	6010	11/12/93
Cadmium	0.57	U	0.57	6010	11/12/93
Chromium	22		1.1	6010	11/12/93
Copper	10		2.9	6010	11/12/93
Iron	17000	N	11	6010	11/12/93
Nickel	21		4.6	6010	11/12/93
Lead	7.1	N	0.29	7421	11/10/93
Mercury	0.024	U	0.024	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	27		2.3	6010	11/12/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1031**
SAMPLE DATE: **10/22/93 13:05:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1031**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.3	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	93	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1031**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1031**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	90	23 - 120
2-Fluorobiphenyl	108	30 - 115
Terphenyl-D14	106	18 - 137
Phenol-D5	86	24 - 113
2-Fluorophenol	84	25 - 121
2,4,6-Tribromophenol	85	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1031**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **106.382**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.3	N	1.1	7060	11/10/93
Aluminum	14000	N	21	6010	11/12/93
Barium	590	N*	21	6010	11/12/93
Beryllium	0.98		0.53	6010	11/12/93
Cadmium	0.53	U	0.53	6010	11/12/93
Chromium	14		1.1	6010	11/12/93
Copper	8.3		2.7	6010	11/12/93
Iron	11000	N	11	6010	11/12/93
Nickel	10		4.3	6010	11/12/93
Lead	6.2	N	0.32	7421	11/10/93
Mercury	0.025	U	0.025	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	24		2.1	6010	11/12/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1032
SAMPLE DATE: 10/22/93 13:10:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01

Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1032**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.0	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN BSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1032**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1032**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	82	23 - 120
2-Fluorobiphenyl	99	30 - 115
Terphenyl-D14	103	18 - 137
Phenol-D5	75	24 - 113
2-Fluorophenol	72	25 - 121
2,4,6-Tribromophenol	83	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1032**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **107.526**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.8	N	1.2	7060	11/10/93
Aluminum	14000	N	22	6010	11/12/93
Barium	68	N*	22	6010	11/12/93
Beryllium	0.71		0.54	6010	11/12/93
Cadmium	0.54	U	0.54	6010	11/12/93
Chromium	15		1.1	6010	11/12/93
Copper	7.2		2.7	6010	11/12/93
Iron	10000	N	11	6010	11/12/93
Nickel	12		4.3	6010	11/12/93
Lead	4.4	N	0.35	7421	11/10/93
Mercury	0.020	U	0.020	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	23		2.2	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1033**
SAMPLE DATE: **10/22/93 13:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.11	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1033**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	10	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	106	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	111	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01

Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1033**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
,4,5-Trichlorophenol	0.825	U	0.825
-Chloronaphthalene	0.330	U	0.330
-Nitroaniline	0.825	U	0.825
imethylphthalate	0.330	U	0.330
cenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.039	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1033**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	78	23 - 120
2-Fluorobiphenyl	104	30 - 115
Terphenyl-D14	107	18 - 137
Phenol-D5	76	24 - 113
2-Fluorophenol	73	25 - 121
2,4,6-Tribromophenol	82	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1033**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **96.1538**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	0.94	7060	11/10/93
Aluminum	13000	N	19	6010	11/12/93
Barium	450	N*	19	6010	11/12/93
Beryllium	0.96		0.48	6010	11/12/93
Cadmium	0.57		0.48	6010	11/12/93
Chromium	16		0.96	6010	11/12/93
Copper	12		2.4	6010	11/12/93
Iron	14000	N	9.6	6010	11/12/93
Nickel	15		3.8	6010	11/12/93
Lead	6.2	N	0.28	7421	11/10/93
Mercury	0.025	U	0.025	7471	11/10/93
Silver	0.96	U	0.96	6010	11/12/93
Zinc	26		1.9	6010	11/12/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1034**
SAMPLE DATE: **10/22/93 13:25:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1034**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.9	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1034**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.10	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01

Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1034**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	87	23 - 120
2-Fluorobiphenyl	109	30 - 115
Terphenyl-D14	103	18 - 137
Phenol-D5	82	24 - 113
2-Fluorophenol	83	25 - 121
2,4,6-Tribromophenol	89	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1034**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **92.5925**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.7	N	0.95	7060	11/10/93
Aluminum	13000	N	19	6010	11/12/93
Barium	440	N*	19	6010	11/12/93
Beryllium	0.84		0.46	6010	11/12/93
Cadmium	0.46	U	0.46	6010	11/12/93
Chromium	17		0.93	6010	11/12/93
Copper	8.0		2.3	6010	11/12/93
Iron	12000	N	9.3	6010	11/12/93
Nickel	14		3.7	6010	11/12/93
Lead	5.6	N	0.29	7421	11/10/93
Mercury	0.025	U	0.025	7471	11/10/93
Silver	0.93	U	0.93	6010	11/12/93
Zinc	23		1.9	6010	11/12/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1035**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 10/31/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	7.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.0	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	91	88 - 110
BROMOFLUOROBENZENE	95	86 - 115
1,2-DICHLOROETHANE-D4	102	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1036**
SAMPLE DATE: **10/22/93 14:35:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1036**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/04/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.9	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.4	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.0	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1036**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.041	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1036**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	98	30 - 115
Terphenyl-D14	109	18 - 137
Phenol-D5	74	24 - 113
2-Fluorophenol	70	25 - 121
2,4,6-Tribromophenol	90	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1036**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **104.166**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.0	UN	1.0	7060	11/10/93
Aluminum	15000	N	21	6010	11/12/93
Barium	250	N*	21	6010	11/12/93
Beryllium	0.99		0.52	6010	11/12/93
Cadmium	0.81		0.52	6010	11/12/93
Chromium	25		1.0	6010	11/12/93
Copper	9.5		2.6	6010	11/12/93
Iron	11000	N	10	6010	11/12/93
Nickel	100		4.2	6010	11/12/93
Lead	5.2	N	0.30	7421	11/10/93
Mercury	0.024	U	0.024	7471	11/10/93
Silver	1.0	U	1.0	6010	11/12/93
Zinc	28		2.1	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1037**
SAMPLE DATE: **10/22/93 14:40:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01

Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1037**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.9	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.4	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	101	74 - 121
1,2-DICHLOROETHANE-D4	110	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1037**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.073	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1037**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	97	30 - 115
Terphenyl-D14	100	18 - 137
Phenol-D5	76	24 - 113
2-Fluorophenol	76	25 - 121
2,4,6-Tribromophenol	81	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1037**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **109.890**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.0	N	1.0	7060	11/10/93
Aluminum	16000	N	22	6010	11/12/93
Barium	160	N*	22	6010	11/12/93
Beryllium	0.99		0.55	6010	11/12/93
Cadmium	0.77		0.55	6010	11/12/93
Chromium	21		1.1	6010	11/12/93
Copper	7.1		2.7	6010	11/12/93
Iron	16000	N	11	6010	11/12/93
Nickel	19		4.4	6010	11/12/93
Lead	5.7	N	0.31	7421	11/10/93
Mercury	0.027	U	0.027	7471	11/10/93
Silver	1.1	U	1.1	6010	11/12/93
Zinc	26		2.2	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1038**
SAMPLE DATE: **10/22/93 14:55:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1038**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	0.6	J	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.6	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.1	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	0.6	J	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01

Work Order: B3-10-297

TEST NAME: ABN HSL GC/MS Extractables
METHOD REFERENCE: EPA8270

SAMPLE ID: A1038
SAMPLE DATE: 10/22/93
SAMPLE MATRIX: SOIL
EXTRACTION DATE: 10/27/93
ANALYSIS DATE: 11/01/93
DILUTION FACTOR: 0.033
UNITS: MG/KG

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
,3-Dichlorobenzene	0.330	U	0.330
,4-Dichlorobenzene	0.330	U	0.330
enzyl alcohol	0.330	U	0.330
2-Dichlorobenzene	0.330	U	0.330
Methylphenol	0.330	U	0.330
s(2-chloroisopropyl)ether	0.330	U	0.330
e -phenol	0.330	U	0.330
itroso-di-n-propylamine	0.330	U	0.330
achloroethane	0.330	U	0.330
robenzene	0.330	U	0.330
horone	0.330	U	0.330
trophenol	0.330	U	0.330
Dimethylphenol	0.330	U	0.330
oic Acid	0.330	U	0.330
-Chloroethoxy)methane	0.330	U	0.330
ichlorophenol	0.330	U	0.330
-Trichlorobenzene	0.330	U	0.330
alene	0.330	U	0.330
roaniline	0.330	U	0.330
lorobutadiene	0.330	U	0.330
ro-3-methylphenol	0.330	U	0.330
lnaphthalene	0.330	U	0.330
orocyclopentadiene	0.330	U	0.330
richlorophenol	0.330	U	0.330
richlorophenol	0.330	U	0.330
naphthalene	0.825	U	0.825
niline	0.330	U	0.330
hthalate	0.825	U	0.825
ylene	0.330	U	0.330
	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.089	JB	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1038**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	72	23 - 120
2-Fluorobiphenyl	93	30 - 115
Terphenyl-D14	107	18 - 137
Phenol-D5	71	24 - 113
2-Fluorophenol	69	25 - 121
2,4,6-Tribromophenol	87	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1038**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **83.3333**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.3	N	1.0	7060	11/10/93
Aluminum	10000	N	17	6010	11/12/93
Barium	250	N*	17	6010	11/12/93
Beryllium	0.81		0.42	6010	11/12/93
Cadmium	0.42	U	0.42	6010	11/12/93
Chromium	15		0.83	6010	11/12/93
Copper	7.5		2.1	6010	11/12/93
Iron	12000	N	8.3	6010	11/12/93
Nickel	13		3.3	6010	11/12/93
Lead	4.4	N	0.30	7421	11/10/93
Mercury	0.021	U	0.021	7471	11/10/93
Silver	0.83	U	0.83	6010	11/12/93
Zinc	21		1.7	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-297

SAMPLE ID: A1039
SAMPLE DATE: 10/22/93 14:55:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1039**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.7	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	5.7	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	106	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1039**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
b[illegible](2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]thylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.072	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1039**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	97	30 - 115
Terphenyl-D14	103	18 - 137
Phenol-D5	73	24 - 113
2-Fluorophenol	72	25 - 121
2,4,6-Tribromophenol	87	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1039**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **102.040**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.5	N	1.1	7060	11/10/93
Aluminum	11000	N	20	6010	11/12/93
Barium	130	N*	20	6010	11/12/93
Beryllium	0.84		0.51	6010	11/12/93
Cadmium	0.51	U	0.51	6010	11/12/93
Chromium	15		1.0	6010	11/12/93
Copper	7.1		2.6	6010	11/12/93
Iron	12000	N	10	6010	11/12/93
Nickel	13		4.1	6010	11/12/93
Lead	3.9	N	0.33	7421	11/10/93
Mercury	0.025	U	0.025	7471	11/10/93
Silver	1.0	U	1.0	6010	11/12/93
Zinc	21		2.0	6010	11/12/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **A1040**
SAMPLE DATE: **10/22/93 15:05:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1040**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/05/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	1.7	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	1.5	J	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	107	81 - 117
BROMOFLUOROBENZENE	102	74 - 121
1,2-DICHLOROETHANE-D4	109	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1040**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/27/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportir Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.11	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1040**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	94	30 - 115
Terphenyl-D14	106	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	74	25 - 121
2,4,6-Tribromophenol	93	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1040**
SAMPLE DATE: **10/22/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **94.3396**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.0	N	0.91	7060	11/10/93
Aluminum	16000	N	19	6010	11/12/93
Barium	1000	N*	19	6010	11/12/93
Beryllium	0.99		0.47	6010	11/12/93
Cadmium	0.47	U	0.47	6010	11/12/93
Chromium	21		0.94	6010	11/12/93
Copper	7.8		2.4	6010	11/12/93
Iron	15000	N	9.4	6010	11/12/93
Nickel	16		3.8	6010	11/12/93
Lead	5.6	N	0.27	7421	11/10/93
Mercury	0.025	U	0.025	7471	11/10/93
Silver	0.94	U	0.94	6010	11/12/93
Zinc	24		1.9	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/03/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 10/31/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	11		10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	88 - 110
BROMOFLUOROBENZENE	95	86 - 115
1,2-DICHLOROETHANE-D4	101	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 10/27/93
ANALYSIS DATE: 10/29/93
DILUTION FACTOR: 0.033
UNITS: MG/KG

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.12	J	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	85	23 - 120
2-Fluorobiphenyl	101	30 - 115
Terphenyl-D14	111	18 - 137
Phenol-D5	84	24 - 113
2-Fluorophenol	79	25 - 121
2,4,6-Tribromophenol	78	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **1.0**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/10/93
Aluminum	0.20	U	0.20	6010	11/12/93
Barium	0.20	U	0.20	6010	11/12/93
Beryllium	0.0050	U	0.0050	6010	11/12/93
Cadmium	0.0050	U	0.0050	6010	11/12/93
Chromium	0.010	U	0.010	6010	11/12/93
Copper	0.025	U	0.025	6010	11/12/93
Iron	0.10	U	0.10	6010	11/12/93
Nickel	0.040	U	0.040	6010	11/12/93
Lead	0.0030	U	0.0030	7421	11/10/93
Mercury	0.00020	U	0.00020	7471	11/10/93
Silver	0.010	U	0.010	6010	11/12/93
Zinc	0.020	U	0.020	6010	11/12/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK#2**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.7	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.2	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.6	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK#3**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/04/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.0	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	99	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK#4**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	0.5	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.2	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.4	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	103	74 - 121
1,2-DICHLOROETHANE-D4	107	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

SAMPLE ID: LAB BLANK
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/04/93	EPA7196

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001 **409832-003-01** **Work Order: B3-10-297**

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-297

TEST NAME **Mercury** TEST CODE **HG_AA**

Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

B310297

313513

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document
Page 1 of 3

Project Name/No. 1 TAPB-5001 409832.03.01
Sample Team Members 2 Andrew Gordon, Kyle Kirschenmann
Profit Center No. 3 3527
Project Manager 4 Jimmy Taylor
Purchase Order No. 6 409832.03-5001
Required Report Date 11 15 Days

Samples Shipment Date 7 10-22-93
Lab Destination 8 ITAS-AUSTIN
Lab Contact 9 Karmen Deaine
Project Contact/Phone 12 Ann McGregor 405-736-2260
Carrier/Waybill No. 13 8460755505

Bill to: 5 409832.03.01 D.O. 5001
Report to: 10 Tim Jennings IT-AUSTIN-ES

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1022	Soil	10-22-93 0740	clear glass	125	cool	8240	Good 1°C	
A1022		10-22-93 0740		500		8270, 6010/7000	Seal Broken	
A1023		10-22-93 0745		125		8240	Th 10/23/93	
A1023		10-22-93 0745		500		8270, 6010/7000		
A1024	Water	10-19-93 1700		40ml	HCl cool	8240		
A1025	Soil	10-22-93 0755		125	cool	8240		B324100A
A1025		10-22-93 0755		500		8270, 6010/7000		

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Turnaround Time Required: 26
Normal ☒ Rush ☐

QC Level: 27
I ☒ II. ☐ III. ☐ Project Specific (specify):

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☒ Archive ____ (mos.)

1. Relinquished by 28 (Signature/Affiliation) [signature] Date: 10-22-93 Time: 1730
2. Relinquished by (Signature/Affiliation) Date: Time:
3. Relinquished by (Signature/Affiliation) Date: Time:

1. Received by 28 (Signature/Affiliation) [signature] IT Date: 10/23/93 Time: 0930
2. Received by (Signature/Affiliation) Date: Time:
3. Received by (Signature/Affiliation) Date: Time:

Comments: 29

Yellow: Field copy

*See back of form for special instructions

MCA 3/15/91

6310297

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 313513

Page 2 of 3

Project Name TAFB-5001

Project No. 409832.03.01 D.O. 5001

Samples Shipment Date 10-22-93

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Preservative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1026	Soil	10-22-93 0800	Glass	125	COOL	8240	Good 1°C	
A1026		10-22-93 0800		500		8270, 6010/7000	See RVRs	
A1027		10-22-93 0945		125		8240	Th 10/23/93	
A1027		10-22-93 0945		500		8270/ 6010/7000		
A1028 (MS/MSD)		10-22-93 0955		125		8240		
A1028 (MS/MSD)		10-22-93 0955		1000		8270, 6010/7000		
A1029		10-22-93 1000		125		8240		
A1029		10-22-93 1000		500		8270, 6010/7000		
A1030		10-22-93 1010		125		8240		
A1030		10-22-93 1010		500		8270, 6010/7000		
A1031		10-22-93 1305		125		8240		
A1031		10-22-93 1305		500		8270, 6010/7000		
A1032		10-22-93 1310		125		8240		
A1032		10-22-93 1310		500		8270, 6010/7000		
A1033		10-22-93 1320		125		8240		
A1033		10-22-93 1320		500		8270, 6010/7000		
A1034		10-22-93 1325		125		8240		
A1034		10-22-93 1325		500		8270, 6010/7000		
A1035	Water	10-22-93 1700		40ml	HCl COOL	8240		B3244100A

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

B310297

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 313513
Page 3 of 3

Project Name TAFB-5001

Project No. 409832-03-01

Samples Shipment Date 10-22-93

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1036	Soil	10-22-93 1435	Clear glass	125	Cool	8240	Good 1°C	
A1036		10-22-93 1435		500		8270, 6010/7000	See RVRS	
A1037		10-22-93 1440		125		8240	Th 10/23/93	
A1037		10-22-93 1440		500		8270, 6010/7000		
A1038		10-22-93 1455		125		8240		
A1038		10-22-93 1455		500		8270/7000/6010		
A1039		10-22-93 1455		125		8240		
A1039		10-22-93 1455		500		8270, 6010/7000		
A1040		10-22-93 1505		125		8240		
A1040		10-22-93 1505		500		8270, 6010/7000		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

Auxiliary Data Summary 12/03/93

Work order : B310297

Sample ID : A1022

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
01B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	103
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	108
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	103

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1023

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	105
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	110
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	105

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1025

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	105
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	110HGAA2	11/10/93	11/10/93	118
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	105

Auxiliary Data Summary 12/03/93

Work order : B310297

Sample ID : A1026

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	98
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	101
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	98

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1027

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
06B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	102
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	116
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	408

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1028

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	108
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	120
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	108

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1028-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B310297-22B	11093050F1	11/09/93		112
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	114
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	112

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1028-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
09B						
	Arsenic	B310297-22B	11093050F1	11/09/93		104
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	114
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	104

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1029

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	102
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	118
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	102

Auxiliary Data Summary

Work order : B310297 12/03/93

Sample ID : A1030

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
11B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	98
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	122
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	98

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1031

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
12B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	105
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	123
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	105

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1032

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
13B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	118
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	102
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	118

Auxiliary Data Summary

Work order : B310297 12/03/93

Sample ID : A1033

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
14B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	94.3
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	127
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	94.3

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1034

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
15B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	95.2
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	50.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	127
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	95.2

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1036

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
17B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	101
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	123
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	101

Auxiliary Data Summary 12/03/93

Work order : B310297

Sample ID : A1037

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
18B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	103
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	10.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	135
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	103

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1038

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
19B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	100
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	50.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	106
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	100

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1039

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
20B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	109
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	50.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	127
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	109

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : A1040

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
21B						
	Arsenic	B310297-22B	11093050F1	11/09/93		90.9
	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	50.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	123
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	90.9

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
22B						
	Arsenic	B310297-22B	11093050F1	11/09/93	11/10/93	1.0
	Chromium VI	B310297-22B	1103CR_VI1	11/03/93	11/03/93	1.0
	Mercury	B310297-22B	1110HGAA2	11/10/93	11/10/93	1.0
	Lead	B310297-22B	11093050F1	11/09/93	11/10/93	1.0

Auxiliary Data Summary 12/03/93

Work order : B310297 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
26A	Chromium VI	B310297-26A	1104CR_VI1	11/04/93	11/04/93	1.0

TPJ

Routed to LH, CF, TL 12/9/93

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED DEC - 8 1992

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/04/93

Work Order: B3-10-293

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O. 5001 409832-003-01
Date Received: 10/21/93
Number of Samples: 15
Sample Type: SOIL

I. Introduction
Revised report. Previously reported on 12/01/93.
First Reported on 12/01/93.

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1004	B3-10-293-01
A1005	B3-10-293-02
A1006	B3-10-293-03
A1007	B3-10-293-04
A1008	B3-10-293-05
A1009	B3-10-293-06
A1010	B3-10-293-07
A1011	B3-10-293-08
A1012	B3-10-293-09
LAB BLANK #1	B3-10-293-10
LAB BLANK #2	B3-10-293-11

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
LAB BLANK #3	B3-10-293-12
LAB BLANK #1	B3-10-293-13
A1006-MS	B3-10-293-14
A1006-MSD	B3-10-293-15

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1004**
SAMPLE DATE: **10/20/93 09:30:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1004**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	7.5	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	30	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	7.6	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	7.5		5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	105	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1004**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.14	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1004**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	73	23 - 120
2-Fluorobiphenyl	78	30 - 115
Terphenyl-D14	92	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	59	25 - 121
2,4,6-Tribromophenol	96	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1004**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **107.526**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.3		0.95	7060	11/08/93
Aluminum	16000		22	6010	11/09/93
Barium	100	N	22	6010	11/09/93
Beryllium	0.74		0.54	6010	11/09/93
Cadmium	0.54	U	0.54	6010	11/09/93
Chromium	17	*	1.1	6010	11/09/93
Copper	7.3	*	2.7	6010	11/09/93
Iron	12000	*	11	6010	11/09/93
Nickel	15	*	4.3	6010	11/09/93
Lead	6.0	N	0.29	7421	11/09/93
Mercury	0.021	U	0.021	7471	11/07/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	24		2.2	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1005**
SAMPLE DATE: **10/20/93 09:45:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1005**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	9.6	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1005**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1005**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	78	23 - 120
2-Fluorobiphenyl	81	30 - 115
Terphenyl-D14	93	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	62	25 - 121
2,4,6-Tribromophenol	103	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1005**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **95.2380**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.7		1.1	7060	11/08/93
Aluminum	11000		19	6010	11/09/93
Barium	68	N	19	6010	11/09/93
Beryllium	0.66		0.48	6010	11/09/93
Cadmium	0.48	U	0.48	6010	11/09/93
Chromium	16	*	0.95	6010	11/09/93
Copper	7.6	*	2.4	6010	11/09/93
Iron	14000	*	9.5	6010	11/09/93
Nickel	16	*	3.8	6010	11/09/93
Lead	5.1	N	0.32	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	0.95	U	0.95	6010	11/09/93
Zinc	22		1.9	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1006**
SAMPLE DATE: **10/20/93 10:00:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1006**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	11	B	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.7	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	1.2	J	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.8	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1006**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1006**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	63	23 - 120
2-Fluorobiphenyl	69	30 - 115
Terphenyl-D14	74	18 - 137
Phenol-D5	58	24 - 113
2-Fluorophenol	59	25 - 121
2,4,6-Tribromophenol	68	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1006**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **107.526**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.8		1.1	7060	11/08/93
Aluminum	11000		22	6010	11/09/93
Barium	510	N	22	6010	11/09/93
Beryllium	0.60		0.54	6010	11/09/93
Cadmium	0.54	U	0.54	6010	11/09/93
Chromium	15	*	1.1	6010	11/09/93
Copper	7.9	*	2.7	6010	11/09/93
Iron	13000	*	11	6010	11/09/93
Nickel	12	*	4.3	6010	11/09/93
Lead	6.0	N	0.33	7421	11/09/93
Mercury	0.025	U	0.025	7471	11/07/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	19		2.2	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1007**
SAMPLE DATE: **10/20/93 10:10:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1007**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	9.8	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	12	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.7	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	0.7	J	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	98	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1007**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
[illegible]-(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1007**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	59	23 - 120
2-Fluorobiphenyl	68	30 - 115
Terphenyl-D14	75	18 - 137
Phenol-D5	56	24 - 113
2-Fluorophenol	56	25 - 121
2,4,6-Tribromophenol	66	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1007**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **108.695**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	10		4.4	7060	11/08/93
Aluminum	8500		22	6010	11/09/93
Barium	790	N	22	6010	11/09/93
Beryllium	0.54	U	0.54	6010	11/09/93
Cadmium	0.54	U	0.54	6010	11/09/93
Chromium	19	*	1.1	6010	11/09/93
Copper	6.9	*	2.7	6010	11/09/93
Iron	11000	*	11	6010	11/09/93
Nickel	14	*	4.3	6010	11/09/93
Lead	6.9	N	0.33	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	16		2.2	6010	11/09/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1008**
SAMPLE DATE: **10/20/93 13:20:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1008**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.4	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	32	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	6.9	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1008**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
[illegible](2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
[illegible]ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.11	JB	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1008**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	76	23 - 120
2-Fluorobiphenyl	79	30 - 115
Terphenyl-D14	94	18 - 137
Phenol-D5	70	24 - 113
2-Fluorophenol	62	25 - 121
2,4,6-Tribromophenol	99	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1008**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **91.7431**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.6		1.1	7060	11/08/93
Aluminum	18000		18	6010	11/09/93
Barium	320	N	18	6010	11/09/93
Beryllium	0.82		0.46	6010	11/09/93
Cadmium	0.60		0.46	6010	11/09/93
Chromium	16	*	0.92	6010	11/09/93
Copper	8.6	*	2.3	6010	11/09/93
Iron	14000	*	9.2	6010	11/09/93
Nickel	13	*	3.7	6010	11/09/93
Lead	8.7	N	0.63	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	0.92	U	0.92	6010	11/09/93
Zinc	27		1.8	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Barium matrix spike duplicate and % RPD for matrix spikes outside control limits due to matrix interference. LCS / LCSD results and method Quality Control were acceptable.

Duplicate analysis outside control limits for chromium, copper, iron and nickel analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

SAMPLE ID: A1009
SAMPLE DATE: 10/20/93 13:30:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1009**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	6.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1009**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
4-Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1009**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	67	23 - 120
2-Fluorobiphenyl	74	30 - 115
Terphenyl-D14	80	18 - 137
Phenol-D5	61	24 - 113
2-Fluorophenol	59	25 - 121
2,4,6-Tribromophenol	73	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1009**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **109.890**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.1	U	1.1	7060	11/08/93
Aluminum	13000		22	6010	11/09/93
Barium	1100	N	22	6010	11/09/93
Beryllium	0.91		0.55	6010	11/09/93
Cadmium	0.55	U	0.55	6010	11/09/93
Chromium	19	*	1.1	6010	11/09/93
Copper	9.6	*	2.7	6010	11/09/93
Iron	17000	*	11	6010	11/09/93
Nickel	20	*	4.4	6010	11/09/93
Lead	7.4	N	0.32	7421	11/09/93
Mercury	0.020	U	0.020	7471	11/07/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	23		2.2	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

SAMPLE ID: **A1010**
SAMPLE DATE: **10/20/93 13:40:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1010**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.7	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1010**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1010**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	61	23 - 120
2-Fluorobiphenyl	63	30 - 115
Terphenyl-D14	68	18 - 137
Phenol-D5	53	24 - 113
2-Fluorophenol	54	25 - 121
2,4,6-Tribromophenol	65	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1010**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **109.890**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.2		1.1	7060	11/08/93
Aluminum	11000		22	6010	11/09/93
Barium	260	N	22	6010	11/09/93
Beryllium	0.61		0.55	6010	11/09/93
Cadmium	0.55	U	0.55	6010	11/09/93
Chromium	14	*	1.1	6010	11/09/93
Copper	7.3	*	2.7	6010	11/09/93
Iron	10000	*	11	6010	11/09/93
Nickel	14	*	4.4	6010	11/09/93
Lead	6.2	N	0.34	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/07/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	22		2.2	6010	11/09/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

SAMPLE ID: A1011
SAMPLE DATE: 10/20/93 14:10:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1011**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/03/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.7	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	17	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	8.3	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: ABN HSL GC/MS Extractables
METHOD REFERENCE: EPA8270

SAMPLE ID: A1011
SAMPLE DATE: 10/20/93
SAMPLE MATRIX: SOIL
EXTRACTION DATE: 10/28/93
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 0.033
UNITS: MG/KG

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.11	JB	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1011**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	53	23 - 120
2-Fluorobiphenyl	59	30 - 115
Terphenyl-D14	60	18 - 137
Phenol-D5	49	24 - 113
2-Fluorophenol	48	25 - 121
2,4,6-Tribromophenol	55	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1011**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 97.0873
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.7		0.91	7060	11/08/93
Aluminum	12000		19	6010	11/09/93
Barium	520	N	19	6010	11/09/93
Beryllium	0.60		0.49	6010	11/09/93
Cadmium	0.53		0.49	6010	11/09/93
Chromium	14	*	0.97	6010	11/09/93
Copper	8.3	*	2.4	6010	11/09/93
Iron	13000	*	9.7	6010	11/09/93
Nickel	14	*	3.9	6010	11/09/93
Lead	7.6	N	0.55	7421	11/09/93
Mercury	0.022	U	0.022	7471	11/07/93
Silver	0.97	U	0.97	6010	11/09/93
Zinc	21		1.9	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1012**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **10/31/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	7.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	91	88 - 110
BROMOFLUOROBENZENE	90	86 - 115
1,2-DICHLOROETHANE-D4	96	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-293

SAMPLE ID: LAB BLANK #1
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.5	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	3.7	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	101	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.14	J	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	82	23 - 120
2-Fluorobiphenyl	83	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	68	24 - 113
2-Fluorophenol	67	25 - 121
2,4,6-Tribromophenol	77	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **1.0**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/08/93
Aluminum	0.20	U	0.20	6010	11/09/93
Barium	0.20	U	0.20	6010	11/09/93
Beryllium	0.0050	U	0.0050	6010	11/09/93
Cadmium	0.0050	U	0.0050	6010	11/09/93
Chromium	0.011		0.010	6010	11/09/93
Copper	0.025	U	0.025	6010	11/09/93
Iron	0.10	U	0.10	6010	11/09/93
Nickel	0.040	U	0.040	6010	11/09/93
Lead	0.0030	U	0.0030	7421	11/09/93
Mercury	0.00020	U	0.00020	7471	11/07/93
Silver	0.010	U	0.010	6010	11/09/93
Zinc	0.020	U	0.020	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Chromium concentration in prep blank for ICPES analysis at 11 ppb, slightly above the PQL of 10 ppb.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	2.2	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	3.3	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	99	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #3**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/03/93
DILUTION FACTOR: 1.0
UNITS: UG/KG

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.1	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	102	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 10/31/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	11		10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
˙ l-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	88 - 110
BROMOFLUOROBENZENE	95	86 - 115
1,2-DICHLOROETHANE-D4	101	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1006-MS**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	100	Trichloroethene	94
		Benzene	106
		Toluene	113
		Chlorobenzene	113

Surrogates	% Recovery	Limits
TOLUENE-D8	107	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1006-MSD**
SAMPLE DATE: **10/20/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	103	Trichloroethene	93
		Benzene	111
		Toluene	116
		Chlorobenzene	113

Surrogates	% Recovery	Limits
TOLUENE-D8	108	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	106	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-293

TEST NAME **Mercury** TEST CODE **HG_AA**

Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

B310293

Reference Document No. 420749

Page 1 of 2

409832.03.01

Project Name/No. [1] TMFB-5001

Sample Team Members [2] ACG/KLK

Profit Center No. [3] 3527

Project Manager [4] Jimmy Taylor

Purchase Order No. [6] —

Required Report Date [11] 15 days

Samples Shipment Date [7] 10-20-93

Lab Destination [8] ITAS-Austin

Lab Contact [9] Karmen Deane

Project Contact/Phone [12] Don McGregor 405-736-2260

Carrier/Waybill No. [13] FX 846075546 1

Bill to: [5] 409832.03.01 D.O. 5001

Report to: [10] Tim Jennings IT-Austin-ES

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1004	Soil	10-20-93 0930	clear glass	125ml	Cool	8240	Good 10c 10/11/93	
A1004	Soil	10-20-93 0930	"	500ml	COOL	8270/6000		
A1005		10-20-93 0945		125		8240		
A1005		10-20-93 0945		500		8270/6000		
A1006		10-20-93 1000		125		8240		
A1006		10-20-93 1000		500		8270/6000		
A1007		10-20-93 1010		125		8240		
A1007		10-20-93 1010		500		8270/6000		

Special Instructions: [23]

Possible Hazard Identification: [24] Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25] Return to Client ☐ Disposal by Lab ☒ Archive ___ (mos.)

Turnaround Time Required: [26] Normal ☒ Rush ☐

QC Level: [27] I. ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) (IT)	Date: 10-20-93 Time: 1700	1. Received by [28] (Signature/Affiliation) IT	Date: 10/21/93 Time: 0912
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

B3 10293

Reference Document No. 409832-03.01

Page 2 of 2

Project Name: TINKER AFB, 5001

Project No. 409832-03.01

Samples Shipment Date: 10-20-93

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1008	Soil	10-20-93 1320	Glass clear	125	COOL	8240	Good, ok 10/21/93	
A1008		10-20-93 1320		500		8270/6000		
A1009		10-20-93 1330		125		8240		
A1009		10-20-93 1330		500		8270/6000		
A1010		10-20-93 1340		125		8240		
A1010		10-20-93 1340		500		8270/6000		
A1011		10-20-93 1410		125		8240		
A1011		10-20-93 1410		500		8270/6000		
A1012	Water	10-19-93 1700	Clear glass	40ml	HCL COOL	8240		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1004

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
01B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	95
	Cromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	106
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	95

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1005

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	105
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	116
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	105

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1006

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	110
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	127
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	110

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1007

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B	3550MS				10/29/93	
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	435
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	HG_AA	B310393-10B	1107HGAAA1	11/07/93	11/07/93	112
	PB_GF	B310393-10B	11043050F1	11/04/93	11/09/93	109

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1008

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	105
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	115
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	210

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1009

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
	06B					
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	105
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	101
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	105

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1010

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	112
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	116
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	112

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : A1011

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	90.9
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	10.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	109
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	182

Auxiliary Data Summary 12/02/93

Work order : B310293 Sample ID : LAB BLANK #1

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	Arsenic	B310393-10B	11043050F1	11/04/93	11/08/93	1.0
	Chromium VI	B310293-10B	1102CRVI1	11/02/93	11/02/93	1.0
	Mercury	B310393-10B	1107HGAA1	11/07/93	11/07/93	1.0
	Lead	B310393-10B	11043050F1	11/04/93	11/09/93	1.0

TPJ

Routed to KH, CF, TL 12/9/93

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED DEC - 8 1992

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/04/93

Work Order: B3-10-245

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O.5001 409832-003-01
Date Received: 10/20/93
Number of Samples: 4
Sample Type: SOIL

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1001	B3-10-245-01
A1002	B3-10-245-02
A1003	B3-10-245-03
LAB BLANK	B3-10-245-04

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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(512) 892-6684

409832-003-01 Work Order: B3-10-245

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

SAMPLE ID: **A1001**
SAMPLE DATE: **10/19/93 14:50:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1001**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	13	B	10	1,1,2-Trichloroethane	5	U	5
Acetone	15	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.2	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1001**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1001**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	66	23 - 120
2-Fluorobiphenyl	64	30 - 115
Terphenyl-D14	70	18 - 137
Phenol-D5	54	24 - 113
2-Fluorophenol	56	25 - 121
2,4,6-Tribromophenol	76	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1001**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **109.890**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.9		0.88	7060	11/08/93
Aluminum	13000		22	6010	11/09/93
Barium	59	N	22	6010	11/09/93
Beryllium	0.55	U	0.55	6010	11/09/93
Cadmium	0.55	U	0.55	6010	11/09/93
Chromium	24	*	1.1	6010	11/09/93
Copper	7.3	*	2.7	6010	11/09/93
Iron	13000	*	11	6010	11/09/93
Nickel	15	*	4.4	6010	11/09/93
Lead	5.1	N	0.26	7421	11/09/93
Mercury	0.021	U	0.021	7471	11/06/93
Silver	1.1	U	1.1	6010	11/09/93
Zinc	22		2.2	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-10-245

SAMPLE ID: A1002
SAMPLE DATE: 10/19/93 15:15:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-245

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1002**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	17	B	10	1,1,2-Trichloroethane	5	U	5
Acetone	21	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	5.4	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	0.8	J	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	107	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	102	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1002**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/05/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1002**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	57	23 - 120
2-Fluorobiphenyl	63	30 - 115
Terphenyl-D14	66	18 - 137
Phenol-D5	53	24 - 113
2-Fluorophenol	51	25 - 121
2,4,6-Tribromophenol	62	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-10-245

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1002**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **100.000**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.1	U	1.1	7060	11/08/93
Aluminum	12000		20	6010	11/09/93
Barium	160	N	20	6010	11/09/93
Beryllium	0.50	U	0.50	6010	11/09/93
Cadmium	0.50	U	0.50	6010	11/09/93
Chromium	25	*	1.0	6010	11/09/93
Copper	7.7	*	2.5	6010	11/09/93
Iron	13000	*	10	6010	11/09/93
Nickel	19	*	4.0	6010	11/09/93
Lead	4.9	N	0.32	7421	11/09/93
Mercury	0.026	U	0.026	7471	11/06/93
Silver	1.0	U	1.0	6010	11/09/93
Zinc	21		2.0	6010	11/09/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

SAMPLE ID: **A1003**
SAMPLE DATE: **10/19/93 15:45:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-245

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1003**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/02/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	9.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.4	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.3	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	100	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1003**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/04/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1003**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	69	23 - 120
2-Fluorobiphenyl	76	30 - 115
Terphenyl-D14	87	18 - 137
Phenol-D5	62	24 - 113
2-Fluorophenol	74	25 - 121
2,4,6-Tribromophenol	74	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1003**
SAMPLE DATE: **10/19/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **89.2857**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.0		0.95	7060	11/08/93
Aluminum	3000		18	6010	11/09/93
Barium	900	N	18	6010	11/09/93
Beryllium	0.45	U	0.45	6010	11/09/93
Cadmium	0.54		0.45	6010	11/09/93
Chromium	8.1	*	0.89	6010	11/09/93
Copper	2.3	*	2.2	6010	11/09/93
Iron	6500	*	8.9	6010	11/09/93
Nickel	6.6	*	3.6	6010	11/09/93
Lead	2.7	N	0.29	7421	11/09/93
Mercury	0.023	U	0.023	7471	11/06/93
Silver	0.89	U	0.89	6010	11/09/93
Zinc	7.7		1.8	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-10-245

SAMPLE ID: LAB BLANK
SAMPLE DATE:
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/02/93	EPA7196

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/02/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	4.5	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	3.7	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
-Dichloroethane	5	U	5	Bromoform	5	U	5
ans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	101	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **10/28/93**
ANALYSIS DATE: **11/01/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.14	J	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	82	23 - 120
2-Fluorobiphenyl	83	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	68	24 - 113
2-Fluorophenol	67	25 - 121
2,4,6-Tribromophenol	77	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 1.00000
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/08/93
Aluminum	0.20	U	0.20	6010	11/09/93
Barium	0.20	U	0.20	6010	11/09/93
Beryllium	0.0050	U	0.0050	6010	11/09/93
Cadmium	0.0050	U	0.0050	6010	11/09/93
Chromium	0.011		0.010	6010	11/09/93
Copper	0.025	U	0.025	6010	11/09/93
Iron	0.10	U	0.10	6010	11/09/93
Nickel	0.040	U	0.040	6010	11/09/93
Lead	0.0030	U	0.0030	7421	11/09/93
Mercury	0.00020	U	0.00020	7471	11/06/93
Silver	0.010	U	0.010	6010	11/09/93
Zinc	0.020	U	0.020	6010	11/09/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Chromium concentration in prep blank for ICPES analysis at 11 ppb, slightly above the PQL of 10 ppb.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

Referenced notes for this work order:

B310245

Batch matrix spike duplicate and % RPD for matrix spikes outside control limits due to matrix interference on barium analyis by ICPES. LCS / LCSD results and method Quality Control were acceptable. All solid samples included with batch.
Batch duplicate analysis outside control limits due to matrix interference on chromium, copper, iron and nickel analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable. All solid samples inclued with batch.
Prep blank for ICPES analysis contained chromium at 11 ppb, 1 ppb above the PQL. All solid samples included in batch.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water.

Company: IT CORPORATION
Date: 12/04/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-10-245

TEST NAME **Mercury** TEST CODE **HG_AA**

Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion	Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 514059
Page 1 of 1

Project Name/No.[1] TAFB 409832.03.01
Sample Team Members[2] AG/KK
Profit Center No.[3] 3527
Project Manager[4] Jimmy Taylor
Purchase Order No.[6] —
Required Report Date[11] ~~#~~ 15 Days

Samples Shipment Date[7] 10-19-93
Lab Destination[8] ITAS-Austin
Lab Contact[9] Karmen Deane
Project Contact/Phone[12] 405-736-2260 - Dan McGregor
Carrier/Waybill No.[13] FedEx 8460755446

Bill to:[5] 409832.03.01
Report to:[10] Tim Jennings IT-Austin

ONE CONTAINER PER LINE

Sample Number[14]	Sample Description/Type[15]	Date/Time Collected[16]	Container Type[17]	Sample Volume[18]	Pre-servative[19]	Requested Testing Program[20]	Condition on Receipt[21]	Disposal Record No.[22]
A1001	Soil	10-19-93 1450	125ml →		COOL ~~None~~	8240	Good 1°C KKC 10-20-93	
A1001	Soil	10-19-93 1450	~~250~~ 500ml →		COOL	8270, 6000	FOR LAB USE ONLY	
A1002	Soil	10-19-93 1515	125ml →			8240		
A1002	Soil	10-19-93 1515	500ml →			8270, 6000		
A1003	Soil	10-19-93 1545	125ml →			8240	FOR LAB USE ONLY	
A1003	Soil	10-19-93 1545	500ml →			8270, 6000		

Special Instructions:[23]

Possible Hazard Identification:[24] Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:[25] Return to Client ☐ Disposal by Lab ☒ Archive ____ (mos.)

Turnaround Time Required:[26] Normal ☒ Rush ☐

QC Level:[27] I. ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by[28] (Signature/Affiliation)	Date: 10-19-93 Time: 1900	1. Received by[28] (Signature/Affiliation) Lori Church IT	Date: 10-20-93 Time: 0900
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments:[29]

MCA 3/15/91

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

Auxiliary Data Summary 12/03/93

Work order : B310245 Sample ID : A1001

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
01B						
	Arsenic	B310245-04B	11043050F1	11/04/93	11/08/93	87.7
	Chromium VI	B310245-04B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310245-04B	1106HGAA1	11/06/93	11/06/93	106
	Lead	B310245-04B	11043050F1	11/04/93	11/09/93	87.7

Auxiliary Data Summary 12/03/93

Work order : B310245 Sample ID : A1002

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B310245-04B	11043050F1	11/04/93	11/08/93	105
	Chromium VI	B310245-04B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310245-04B	1106HGAA1	11/06/93	11/06/93	130
	Lead	B304245-04B	11043050F1	11/04/93	11/09/93	105

Auxiliary Data Summary 12/03/93

Work order : B310245 Sample ID : A1003

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B310245-04B	11043050F1	11/04/93	11/08/93	95.2
	Chromium VI	B310245-04B	1102CR_VI1	11/02/93	11/02/93	10.0
	Mercury	B310245-04B	1106HGAA1	11/06/93	11/06/93	116
	Lead	B310245-04B	11043050F1	11/04/93	11/09/93	95.2

Auxiliary Data Summary 12/03/93

Work order : B310245 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B310245-04B	11043050F1	11/04/93	11/08/93	1.0
	Chromium VI	B310245-04B	1102CR_VI1	11/02/93	11/02/93	1.0
	Mercury	B310245-04B	1106HGAA1	11/06/93	11/06/93	1.0
	Lead	B310245-04B	11043050F1	11/04/93	11/09/93	1.0

TPJ

INTERNATIONAL TECHNOLOGY CORPORATION

routed to KH, CF, TL
12/10/93

ANALYTICAL SERVICES

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CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/10/93

Work Order: B3-11-066

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O.5001 409832-003-01
Date Received: 11/04/93
Number of Samples: 12
Sample Type: SOIL/WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1517	B3-11-066-01
A1518	B3-11-066-02
A1519	B3-11-066-03
A1520	B3-11-066-04
A1521	B3-11-066-05
A1522	B3-11-066-06
A1522-MS	B3-11-066-07
A1522-MSD	B3-11-066-08
LAB BLANK #1	B3-11-066-09
LAB BLANK #2	B3-11-066-10
A1518 MS	B3-11-066-11
A1518 MSD	B3-11-066-12

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1517**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	93	88 - 110
BROMOFLUOROBENZENE	96	86 - 115
1,2-DICHLOROETHANE-D4	103	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1518**
SAMPLE DATE: **11/03/93 09:35:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	mg/L	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1518**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.9	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
[illegible]-Dichloroethane	5	U	5	Bromoform	5	U	5
[illegible]s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	94	88 - 110
BROMOFLUOROBENZENE	103	86 - 115
1,2-DICHLOROETHANE-D4	100	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1518**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	1.7	JB	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
ethylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	5.4	JB	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1518**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	36	35 - 114
2-Fluorobiphenyl	48	43 - 116
Terphenyl-D14	87	33 - 141
Phenol-D5	42	10 - 94
2-Fluorophenol	48	21 - 100
2,4,6-Tribromophenol	65	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1518**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **WATER**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/L**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	12/08/93
Barium	0.20	U	0.20	6010	12/08/93
Beryllium	0.0050	U	0.0050	6010	12/08/93
Cadmium	0.0050	U	0.0050	6010	12/08/93
Chromium	0.010	U	0.010	6010	12/08/93
Copper	0.025	U	0.025	6010	12/08/93
Iron	0.10	U	0.10	6010	12/08/93
Nickel	0.040	U	0.040	6010	12/08/93
Lead	0.0030	U	0.0030	7421	11/11/93
Mercury	0.00020	U	0.00020	7471	11/16/93
Silver	0.010	U	0.010	6010	12/08/93
Zinc	0.020	U	0.020	6010	12/08/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1519**
SAMPLE DATE: **11/03/93 08:50:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1519**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	5.6	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	7.5	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1 Dichloroethane	5	U	5	Bromoform	5	U	5
t .s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	7.8		5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.5	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	96	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1519**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.085	J	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.059	J	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1519**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	83	23 - 120
2-Fluorobiphenyl	94	30 - 115
Terphenyl-D14	84	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	56	25 - 121
2,4,6-Tribromophenol	96	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1519**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **112.359**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	1.1	UN	1.1	7060	11/17/93
Aluminum	13000	*N	22	6010	11/18/93
Barium	160	N	22	6010	11/18/93
Beryllium	0.97		0.56	6010	11/18/93
Cadmium	0.67		0.56	6010	11/18/93
Chromium	12	*	1.1	6010	11/18/93
Copper	9.0	*	2.8	6010	11/18/93
Iron	8500	*N	11	6010	11/18/93
Nickel	8.2		4.5	6010	11/18/93
Lead	5.5	N	0.34	7421	11/17/93
Mercury	0.031		0.025	7471	11/17/93
Silver	1.1	U	1.1	6010	11/18/93
Zinc	21	*	2.2	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: A1520
SAMPLE DATE: 11/03/93 08:55:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.49U	0.49	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1520**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	5.8	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	2.5	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1 -Dichloroethane	5	U	5	Bromoform	5	U	5
t .s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	2.4	J	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.5	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	99	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1520**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
b 2-Chloroisopropyl)ether	0.330	U	0.330
4 thylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.054	J	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1520**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	81	18 - 137
Phenol-D5	63	24 - 113
2-Fluorophenol	50	25 - 121
2,4,6-Tribromophenol	89	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1520**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **93.4579**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	12	UN	3.9	7060	11/17/93
Aluminum	8900	*N	19	6010	11/18/93
Barium	1200	N	19	6010	11/18/93
Beryllium	1.6		0.47	6010	11/18/93
Cadmium	1.1		0.47	6010	11/18/93
Chromium	14	*	0.93	6010	11/18/93
Copper	9.4	*	2.3	6010	11/18/93
Iron	19000	* N	9.3	6010	11/18/93
Nickel	25		3.7	6010	11/18/93
Lead	33	N	2.8	7421	11/17/93
Mercury	0.031		0.025	7471	11/17/93
Silver	0.93		0.93	6010	11/18/93
Zinc	17	*	1.9	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1521**
SAMPLE DATE: **11/03/93 09:00:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.51U	0.51	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1521**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	3.4	J	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	5.5	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.4	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
[illegible]-Dichloroethane	5	U	5	Bromoform	5	U	5
[illegible]s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5.7		5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	9.0		5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.4	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	105	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	102	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1521**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330
ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reportin Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1521**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	80	23 - 120
2-Fluorobiphenyl	91	30 - 115
Terphenyl-D14	85	18 - 137
Phenol-D5	65	24 - 113
2-Fluorophenol	54	25 - 121
2,4,6-Tribromophenol	93	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1521**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **98.0392**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	0.86	7060	11/17/93
Aluminum	9700	*N	20	6010	11/18/93
Barium	1900	N	20	6010	11/18/93
Beryllium	1.8		0.49	6010	11/18/93
Cadmium	0.95		0.49	6010	11/18/93
Chromium	18	*	0.98	6010	11/18/93
Copper	13	*	2.5	6010	11/18/93
Iron	23000	*N	9.8	6010	11/18/93
Nickel	19		3.9	6010	11/18/93
Lead	6.7	N	0.29	7421	11/17/93
Mercury	0.027	U	0.027	7471	11/17/93
Silver	1.0		0.98	6010	11/18/93
Zinc	25	*	2.0	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1522**
SAMPLE DATE: **11/03/93 09:03:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.50U	0.50	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1522**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	14		5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	9.4	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	16	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	7.4		5	2-Chloroethylvinyl ether	10	U	10
1 Dichloroethane	1.7	J	5	Bromoform	5	U	5
t s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5.8		5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	6.6		5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	6.0	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	2.8	J	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1522**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/15/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reportin Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
ethylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1522**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	80	18 - 137
Phenol-D5	62	24 - 113
2-Fluorophenol	52	25 - 121
2,4,6-Tribromophenol	80	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1522**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 91.7431
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.2	N	0.89	7060	11/17/93
Aluminum	12000	*N	18	6010	11/18/93
Barium	750	N	18	6010	11/18/93
Beryllium	0.90		0.46	6010	11/18/93
Cadmium	0.46	U	0.46	6010	11/18/93
Chromium	16	*	0.92	6010	11/18/93
Copper	7.9	*	2.3	6010	11/18/93
Iron	13000	*N	9.2	6010	11/18/93
Nickel	12		3.7	6010	11/18/93
Lead	9.7	N	1.1	7421	11/17/93
Mercury	0.029	U	0.029	7471	11/17/93
Silver	0.92	U	0.92	6010	11/18/93
Zinc	20	*	1.8	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Duplicate analysis outside control limits due to matrix interference on aluminum, chromium, copper, iron and zinc analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1522-MS**
SAMPLE DATE: **11/03/93 09:03:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		113		% REC	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1522-MS**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: % **REC**

	Result		Result
1,1-Dichloroethene	129	Trichloroethene	95
		Benzene	114
		Toluene	108
		Chlorobenzene	107

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	108	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1522-MS**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/09/93
ANALYSIS DATE: 11/14/93
DILUTION FACTOR: 0.033
UNITS: **% REC**

	Result		Result
Phenol	69	Acenaphthene	121
2-Chlorophenol	86	4-Nitrophenol	89
1,4-Dichlorobenzene	73	2,4-Dinitrotoluene	91
N-Nitroso-di-n-propylamine	96	Pentachlorophenol	86
1,2,4-Trichlorobenzene	88	Pyrene	98
4-Chloro-3-methylphenol	85		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	88	30 - 115
Terphenyl-D14	85	18 - 137
Phenol-D5	66	24 - 113
2-Fluorophenol	58	25 - 121
2,4,6-Tribromophenol	93	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1522-MS**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 113.636
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	0	7060	11/17/93
Aluminum	312	6010	11/18/93
Barium	0	6010	11/18/93
Beryllium	88	6010	11/18/93
Cadmium	85	6010	11/18/93
Chromium	85	6010	11/18/93
Copper	88	6010	11/18/93
Iron	0	6010	11/18/93
Nickel	83	6010	11/18/93
Lead	0	7421	11/17/93
Mercury	111	7471	11/17/93
Silver	86	6010	11/18/93
Zinc	81	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES. % RPD for matrix spikes also outside control limits due to matrix interference on barium and iron analysis by ICPES.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

SAMPLE ID: **A1522-MSD**
SAMPLE DATE: **11/03/93 09:03:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		115		% REC	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1522-MSD**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: % REC

	Result		Result
1,1-Dichloroethene	120	Trichloroethene	86
		Benzene	105
		Toluene	105
		Chlorobenzene	103

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1522-MSD**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/09/93
ANALYSIS DATE: 11/14/93
DILUTION FACTOR: 0.033
UNITS: **% REC**

	Result		Result
Phenol	72	Acenaphthene	125
2-Chlorophenol	86	4-Nitrophenol	82
1,4-Dichlorobenzene	76	2,4-Dinitrotoluene	90
N-Nitroso-di-n-propylamine	96	Pentachlorophenol	85
1,2,4-Trichlorobenzene	91	Pyrene	102
4-Chloro-3-methylphenol	89		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	85	23 - 120
2-Fluorobiphenyl	95	30 - 115
Terphenyl-D14	89	18 - 137
Phenol-D5	68	24 - 113
2-Fluorophenol	60	25 - 121
2,4,6-Tribromophenol	93	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1522-MSD**
SAMPLE DATE: **11/03/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **100.000**
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	1.1	7060	11/17/93
Aluminum	341	6010	11/18/93
Barium	42	6010	11/18/93
Beryllium	89	6010	11/18/93
Cadmium	87	6010	11/18/93
Chromium	85	6010	11/18/93
Copper	89	6010	11/18/93
Iron	0	6010	11/18/93
Nickel	82	6010	11/18/93
Lead	0	7421	11/17/93
Mercury	112	7471	11/17/93
Silver	87	6010	11/18/93
Zinc	82	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES. % RPD for matrix spikes also outside control limits due to matrix interference on barium and iron analysis by ICPES.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.8	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.7	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
J -Dichloroethane	5	U	5	Bromoform	5	U	5
t .s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.5	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: 11/09/93
ANALYSIS DATE: 11/14/93
DILUTION FACTOR: 0.033
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
b' '2-Chloroisopropyl)ether	0.330	U	0.330
4 thylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	51	23 - 120
2-Fluorobiphenyl	69	30 - 115
Terphenyl-D14	78	18 - 137
Phenol-D5	51	24 - 113
2-Fluorophenol	41	25 - 121
2,4,6-Tribromophenol	69	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK #1**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/17/93
Aluminum	0.23		0.20	6010	11/18/93
Barium	0.20	U	0.20	6010	11/18/93
Beryllium	0.0050	U	0.0050	6010	11/18/93
Cadmium	0.0050	U	0.0050	6010	11/18/93
Chromium	0.010	U	0.010	6010	11/18/93
Copper	0.025	U	0.025	6010	11/18/93
Iron	0.10	U	0.10	6010	11/18/93
Nickel	0.040	U	0.040	6010	11/18/93
Lead	0.0030	U	0.0030	7421	11/17/93
Mercury	0.00020		0.00020	7471	11/17/93
Silver	0.010	U	0.010	6010	11/18/93
Zinc	0.020	U	0.020	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/L	11/04/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
[illegible]-Dichloroethane	5	U	5	Bromoform	5	U	5
[illegible]s-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	96	88 - 110
BROMOFLUOROBENZENE	107	86 - 115
1,2-DICHLOROETHANE-D4	100	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit
Phenol	10	U	10
bis(2-Chloroethyl)ether	10	U	10
2-Chlorophenol	10	U	10
1,3-Dichlorobenzene	10	U	10
1,4-Dichlorobenzene	1.4	J	10
Benzyl alcohol	10	U	10
1,2-Dichlorobenzene	10	U	10
2-Methylphenol	10	U	10
[illegible]'2-Chloroisopropyl)ether	10	U	10
[illegible]ethylphenol	10	U	10
N-Nitroso-di-n-propylamine	10	U	10
Hexachloroethane	10	U	10
Nitrobenzene	10	U	10
Isophorone	10	U	10
2-Nitrophenol	10	U	10
2,4-Dimethylphenol	10	U	10
Benzoic Acid	10	U	10
bis(2-Chloroethoxy)methane	10	U	10
2,4-Dichlorophenol	10	U	10
1,2,4-Trichlorobenzene	10	U	10
Naphthalene	10	U	10
4-Chloroaniline	10	U	10
Hexachlorobutadiene	10	U	10
4-Chloro-3-methylphenol	10	U	10
2-Methylnaphthalene	10	U	10
Hexachlorocyclopentadiene	10	U	10
2,4,6-Trichlorophenol	10	U	10
2,4,5-Trichlorophenol	10	U	10
2-Chloronaphthalene	10	U	10
2-Nitroaniline	25	U	25
Dimethylphthalate	10	U	10
Acenaphthylene	10	U	10

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	10	U	10
3-Nitroaniline	25	U	25
Acenaphthene	10	U	10
2,4-Dinitrophenol	25	U	25
4-Nitrophenol	25	U	25
Dibenzofuran	10	U	10
2,4-Dinitrotoluene	10	U	10
Diethylphthalate	10	U	10
4-Chlorophenyl-phenylether	10	U	10
Fluorene	10	U	10
4-Nitroaniline	10	U	10
4,6-Dinitro-2-methylphenol	25	U	25
N-Nitrosodiphenylamine (1)	10	U	10
4-Bromophenyl-phenylether	10	U	10
Hexachlorobenzene	10	U	10
Pentachlorophenol	25	U	25
Phenanthrene	10	U	10
Anthracene	10	U	10
Di-n-butylphthalate	10	U	10
Fluoranthene	10	U	10
Pyrene	10	U	10
Butylbenzylphthalate	10	U	10
3,3'-Dichlorobenzidine	10	U	10
Benzo(a)anthracene	10	U	10
Chrysene	10	U	10
bis(2-Ethylhexyl)phthalate	2.7	J	10
Di-n-octylphthalate	10	U	10
Benzo(b)fluoranthene	10	U	10
Benzo(k)fluoranthene	10	U	10
Benzo(a)pyrene	10	U	10
Indeno(1,2,3-cd)pyrene	10	U	10
Dibenzo(a,h)anthracene	10	U	10
Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	44	35 - 114
2-Fluorobiphenyl	58	43 - 116
Terphenyl-D14	84	33 - 141
Phenol-D5	45	10 - 94
2-Fluorophenol	29	21 - 100
2,4,6-Tribromophenol	64	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **WATER**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/L**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/12/93
Aluminum	0.20	U	0.20	6010	12/08/93
Barium	0.20	U	0.20	6010	12/08/93
Beryllium	0.0050	U	0.0050	6010	12/08/93
Cadmium	0.0050	U	0.0050	6010	12/08/93
Chromium	0.010	U	0.010	6010	12/08/93
Copper	0.025	U	0.025	6010	12/08/93
Iron	0.10	U	0.10	6010	12/08/93
Nickel	0.040	U	0.040	6010	12/08/93
Lead	0.0030	U	0.0030	7421	11/11/93
Mercury	0.00020	U	0.00020	7471	11/16/93
Silver	0.010	U	0.010	6010	12/08/93
Zinc	0.020	U	0.020	6010	12/08/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1518 MS**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
1,1-Dichloroethene	119		5	Trichloroethene	105		5
				Benzene	109		5
				Toluene	100		5
				Chlorobenzene	102		5

Surrogates	% Recovery	Limits
TOLUENE-D8	95	88 - 110
BROMOFLUOROBENZENE	105	86 - 115
1,2-DICHLOROETHANE-D4	101	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1518 MSD**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **REC**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
1,1-Dichloroethene	117		5	Trichloroethene	107		5
				Benzene	109		5
				Toluene	102		5
				Chlorobenzene	104		5

Surrogates	% Recovery	Limits
TOLUENE-D8	95	88 - 110
BROMOFLUOROBENZENE	105	86 - 115
1,2-DICHLOROETHANE-D4	100	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

Referenced notes for this work order:

B311066

Prep blank for ICPES analysis had aluminum concentration greater than the PQL (230 ppb). This concentration was less than 5% of all batched soil samples' concentration.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-066

TEST NAME **Mercury** TEST CODE **HG_AA**

Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **ICPES Digestion - Water** TEST CODE **Z3005**

Water Digestion	Method 3005A, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Digestion procedure for the preparation of surface and ground water samples for analysis by flame atomic absorption spectroscopy and inductively coupled plasma spectroscopy. The procedure determines total recoverable or dissolved metals.

TEST NAME **GFAA Digestion - Water** TEST CODE **Z3020**

Water Digestion	Method 3020, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace.

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-066

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion — Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion — Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

B311066

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 416583
Page 1 of 2

Project Name/No. [1] TAFB 5001/409832.03 01
Samples Shipment Date [7] 11-3-93
Bill to: [5] 409832.03 D.O. 5001
Sample Team Members [2] L. Rodriguez/M. Wilson
Lab Destination [8] ITAS-AUSTIN
Profit Center No. [3] 3527
Lab Contact [9] Karmen Deane (405) 736-2260
Project Manager [4] Jimmy Taylor
Project Contact/Phone [12] Dan McGregors
Report to: [10] Tim Jennings IT-Austin
Purchase Order No. [6] 409832.003
Carrier/Waybill No. [13] Fed Exp 8460755516
Required Report Date [11] NORMAL

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1517	Trip Blank	10-21-93 0700	Clear glass	40 ml	ice HCL	VOA 8240	Good 1°C XXC 11-4-93	B3244100A XXC
A1518	Equipment Rinsate	11-3-93 0935	Clear glass	40 ml	HCL ice	VOA 8240	See RVR	B3244100A
A1518	Eqp Rinsate	11-3-93 0935	Amber glass	1L	ice	SVOC 8270		
A1518	EQP Rinsate	11-3-93 0935	HDPE	0.5L	HNO3 ice	Metals 6010/7000		
A1518	EQP Rinsate	11-3-93 0935	HDPE	0.25L	ice	Hex Chrome		
A1519	Soil Sample	11-3-93 0850	Glass Jar	125 ml	ice	VOA 8240		
A1519	Soil Sample	↓	Glass Jar	500 ml	ice	Metals 6010/7000 SVOC 8270		
A1520	Soil Sample	11-3-93 0855	Glass Jar	125 ml	ice	VOA 8240	↓	

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☐

QC Level: [27]
I. ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Luis Rodriguez	Date: 11-3-93 Time: 1621	1. Received by [28] (Signature/Affiliation) Laura Church IT	Date: 11-4-93 Time: 0857
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

B311066

Reference Document No. [illegible]

Page 2 of 2

Project Name Tinker AFB 5001

Project No. 401832.03.01

Samples Shipment Date [illegible]

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
A1520	Soil	~~Glass~~ 11-3-90 Jar 0855	Glass Jar	500ml	~~Amb~~ ICE	Metals 6010/7000 SVOC 8270	Good 1°C 11-4-93	
A1521	Soil	11-3-90 0900		125ml		VOA 8240	See JR	
A1521	Soil	↓		500ml		Metals 6010/7000 SVOC 8270		
A1522	Soil	11-3-90 0903		125ml		VOA 8240		
A1522 (MS/MSD)	Soil	↓	↓	500ml		Metals 6010/7000 SVOC 8270	↓ Rec'd 2x500	

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1518

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02C						
	Arsenic	B311066-10B	111030201	11/10/93	11/12/93	1.0
	Mercury	B311066-10B	1116HGAA2	11/16/93	11/16/93	1.0
	Lead	B311066-10B	111030201	11/10/93	11/11/93	1.0
02D	Chromium VI	B311066-10B	1104CR_VI2	11/04/93	11/04/93	1.0

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1519

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	114
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	49.5
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	120
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	114

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1520

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	385
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	49.0
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	118
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	962

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1521

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	86.2
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	50.5
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	127
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	86.2

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1522

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
06B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	89.3
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	50.0
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	137
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	357

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1522-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	93.4
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	50.0
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	109
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	93.4

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : A1522-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	110
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	50.5
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	106
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	110

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : LAB BLANK #1

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
09B						
	Arsenic	B311066-09B	11153050F2	11/15/93	11/17/93	1.0
	Chromium VI	B311066-09B	1117CR_VI1	11/17/93	11/17/93	1.0
	Mercury	B311066-09B	1117HGAA4	11/17/93	11/17/93	1.0
	Lead	B311066-09B	11153050F2	11/15/93	11/17/93	1.0

Auxiliary Data Summary 12/09/93

Work order : B311066 Sample ID : LAB BLANK #2

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	Arsenic	B311066-09B	111030201	11/10/93	11/12/93	1.0
	Chromium VI	B311066-10B	1104CR_VI1	11/04/93	11/04/93	1.0
	Mercury	B311066-09B	1116HGAA2	11/16/93	11/16/93	1.0
	Lead	B311066-09B	111030201	11/10/93	11/11/93	1.0

TPT

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

Routed to KH, CF, TL
12/10/93

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CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 12/10/93

Work Order: B3-11-077

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O.5001 409832-003-01
Date Received: 11/05/93
Number of Samples: 9
Sample Type: SOIL

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1524	B3-11-077-01
A1524-MS	B3-11-077-02
A1524-MSD	B3-11-077-03
A1525	B3-11-077-04
A1526	B3-11-077-05
2-68A14.5	B3-11-077-06
A1523	B3-11-077-07
LAB BLANK	B3-11-077-08
LAB BLANK	B3-11-077-09

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

SAMPLE ID: **A1524**
SAMPLE DATE: **11/04/93 13:05:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.099U	0.099	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1524**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	5.1	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	9.2	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	4.1	JB	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	103	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1524**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reportin Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.067	J	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1524**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	77	23 - 120
2-Fluorobiphenyl	85	30 - 115
Terphenyl-D14	76	18 - 137
Phenol-D5	61	24 - 113
2-Fluorophenol	52	25 - 121
2,4,6-Tribromophenol	84	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1524**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **95.2380**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	3.4	N	0.96	7060	11/19/93
Aluminum	7300	*N	19	6010	11/18/93
Barium	260	*N	19	6010	11/18/93
Beryllium	0.90		0.48	6010	11/18/93
Cadmium	0.48	U	0.48	6010	11/18/93
Chromium	8.6	*	0.95	6010	11/18/93
Copper	5.8		2.4	6010	11/18/93
Iron	7900	*N	9.5	6010	11/18/93
Nickel	12	*	3.8	6010	11/18/93
Lead	7.9	N	0.58	7421	11/19/93
Mercury	0.022	U	0.022	7471	11/19/93
Silver	0.95	U	0.95	6010	11/18/93
Zinc	12		1.9	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Duplicate analysis outside control limits due to matrix interference on aluminum, barium, chromium, iron and nickel analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

SAMPLE ID: **A1524-MS**
SAMPLE DATE: **11/04/93 13:05:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		101		% REC	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1524-MS**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: % **REC**

	Result		Result
1,1-Dichloroethene	121	Trichloroethene	91
		Benzene	110
		Toluene	111
		Chlorobenzene	112

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1524-MS**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	68	Acenaphthene	119
2-Chlorophenol	82	4-Nitrophenol	80
1,4-Dichlorobenzene	71	2,4-Dinitrotoluene	89
N-Nitroso-di-n-propylamine	92	Pentachlorophenol	81
1,2,4-Trichlorobenzene	89	Pyrene	95
4-Chloro-3-methylphenol	82		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	76	23 - 120
2-Fluorobiphenyl	87	30 - 115
Terphenyl-D14	78	18 - 137
Phenol-D5	63	24 - 113
2-Fluorophenol	57	25 - 121
2,4,6-Tribromophenol	83	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1524-MS**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **109.890**
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	127	7060	11/19/93
Aluminum	1400	6010	11/18/93
Barium	760	6010	11/18/93
Beryllium	89	6010	11/18/93
Cadmium	88	6010	11/18/93
Chromium	97	6010	11/18/93
Copper	92	6010	11/18/93
Iron	716	6010	11/18/93
Nickel	91	6010	11/18/93
Lead	240	7421	11/19/93
Mercury	114	7471	11/19/93
Silver	87	6010	11/18/93
Zinc	95	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.
% RPD for matrix spikes also outside control limits due to matrix interference on barium analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

SAMPLE ID: **A1524-MSD**
SAMPLE DATE: **11/04/93 13:05:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		108		% REC	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1524-MSD**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	127	Trichloroethene	87
		Benzene	108
		Toluene	112
		Chlorobenzene	107

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	98	74 - 121
1,2-DICHLOROETHANE-D4	105	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1524-MSD**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **% REC**

	Result		Result
Phenol	62	Acenaphthene	115
2-Chlorophenol	74	4-Nitrophenol	74
1,4-Dichlorobenzene	64	Pentachlorophenol	76
N-Nitroso-di-n-propylamine	85	Pyrene	90
1,2,4-Trichlorobenzene	84		
4-Chloro-3-methylphenol	83		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	73	23 - 120
2-Fluorobiphenyl	84	30 - 115
Terphenyl-D14	75	18 - 137
Phenol-D5	60	24 - 113
2-Fluorophenol	52	25 - 121
2,4,6-Tribromophenol	82	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1524-MSD**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 91.7431
UNITS: **% REC**

	Result	Method Reference	Analysis Date
Arsenic	93.3	7060	11/19/93
Aluminum	1360	6010	11/18/93
Barium	0	6010	11/18/93
Beryllium	87	6010	11/18/93
Cadmium	86	6010	11/18/93
Chromium	97	6010	11/18/93
Copper	91	6010	11/18/93
Iron	763	6010	11/18/93
Nickel	92	6010	11/18/93
Lead	0	6010	11/18/93
Mercury	114	7421	11/19/93
Silver	85	7471	11/19/93
Zinc	93	6010	11/18/93
		6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Referenced notes for these results:

Matrix spike outside control limits due to matrix interference on aluminum, barium and iron analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.
% RPD for matrix spikes also outside control limits due to matrix interference on barium analysis by ICPES. LCS / LCSD results and method Quality Control were acceptable.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

SAMPLE ID: **A1525**
SAMPLE DATE: **11/04/93 13:15:00**
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.098U	0.098	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1525**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/13/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	1.7	J#	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.4	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	5.7	JB	100	Benzene	2.0	J#	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	2.0	J#	5	2-Chloroethylvinyl ether	10	U	10
1-Dichloroethane	5	U	5	Bromoform	5	U	5
ıns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	2.2	J#	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	2.1	J#	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Referenced notes for these results:

#Trace levels of spiking compounds were seen below PQL due to possible carryover.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1525**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporti Limit
Phenol	0.330	U	0.330	2,6-Dinitrotoluene	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330	3-Nitroaniline	0.825	U	0.825
2-Chlorophenol	0.330	U	0.330	Acenaphthene	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrophenol	0.825	U	0.825
1,4-Dichlorobenzene	0.330	U	0.330	4-Nitrophenol	0.825	U	0.825
Benzyl alcohol	0.330	U	0.330	Dibenzofuran	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330	2,4-Dinitrotoluene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330	Diethylphthalate	0.330	U	0.330
s(2-Chloroisopropyl)ether	0.330	U	0.330	4-Chlorophenyl-phenylether	0.330	U	0.330
Methylphenol	0.330	U	0.330	Fluorene	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330	4-Nitroaniline	0.825	U	0.825
Hexachloroethane	0.330	U	0.330	4,6-Dinitro-2-methylphenol	0.825	U	0.825
Nitrobenzene	0.330	U	0.330	N-Nitrosodiphenylamine (1)	0.330	U	0.330
Isophorone	0.330	U	0.330	4-Bromophenyl-phenylether	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330	Hexachlorobenzene	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330	Pentachlorophenol	0.825	U	0.825
Benzoic Acid	0.330	U	0.330	Phenanthrene	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330	Anthracene	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330	Di-n-butylphthalate	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330	Fluoranthene	0.330	U	0.330
Naphthalene	0.330	U	0.330	Pyrene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330	Butylbenzylphthalate	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330	3,3'-Dichlorobenzidine	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330	Benzo(a)anthracene	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330	Chrysene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330	bis(2-Ethylhexyl)phthalate	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330	Di-n-octylphthalate	0.25	J	0.330
2,4,5-Trichlorophenol	0.825	U	0.825	Benzo(b)fluoranthene	0.330	U	0.330
2-Chloronaphthalene	0.330	U	0.330	Benzo(k)fluoranthene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825	Benzo(a)pyrene	0.330	U	0.330
Dimethylphthalate	0.330	U	0.330	Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Acenaphthylene	0.330	U	0.330	Dibenzo(a,h)anthracene	0.330	U	0.330
				Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1525**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	81	23 - 120
2-Fluorobiphenyl	86	30 - 115
Terphenyl-D14	78	18 - 137
Phenol-D5	63	24 - 113
2-Fluorophenol	52	25 - 121
2,4,6-Tribromophenol	77	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1525**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **96.1538**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	4.5	N	0.92	7060	11/19/93
Aluminum	8600	*N	19	6010	11/18/93
Barium	940	*N	19	6010	11/18/93
Beryllium	1.3		0.48	6010	11/18/93
Cadmium	0.77		0.48	6010	11/18/93
Chromium	13	*	0.96	6010	11/18/93
Copper	11		2.4	6010	11/18/93
Iron	14000	*N	9.6	6010	11/18/93
Nickel	20	*	3.8	6010	11/18/93
Lead	8.4	N	1.1	7421	11/19/93
Mercury	0.021	U	0.021	7471	11/19/93
Silver	0.96	U	0.96	6010	11/18/93
Zinc	20		1.9	6010	11/18/93

Data qualifier key:
E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

SAMPLE ID: A1526
SAMPLE DATE: 11/04/93 13:23:00
SAMPLE MATRIX: SOIL

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.10U	0.10	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1526**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: **11/13/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.0	JB	10	1,1,2-Trichloroethane	5	U	5
Acetone	6.0	JB	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	103	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	104	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1526**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
bis(2-Chloroisopropyl)ether	0.330	U	0.330
Methylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reportin Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.18	J	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1526**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	74	23 - 120
2-Fluorobiphenyl	82	30 - 115
Terphenyl-D14	76	18 - 137
Phenol-D5	64	24 - 113
2-Fluorophenol	54	25 - 121
2,4,6-Tribromophenol	78	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1526**
SAMPLE DATE: **11/04/93**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): **101.010**
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	2.0	N	1.0	7060	11/19/93
Aluminum	8400	*N	20	6010	11/18/93
Barium	95	*N	20	6010	11/18/93
Beryllium	0.96		0.51	6010	11/18/93
Cadmium	0.51	U	0.51	6010	11/18/93
Chromium	13	*	1.0	6010	11/18/93
Copper	7.8		2.5	6010	11/18/93
Iron	11000	*N	10	6010	11/18/93
Nickel	15	*	4.0	6010	11/18/93
Lead	4.8	N	0.31	7421	11/19/93
Mercury	0.027	U	0.027	7471	11/19/93
Silver	1.0	U	1.0	6010	11/18/93
Zinc	18		2.0	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1523**
SAMPLE DATE: **10/21/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	94	88 - 110
BROMOFLUOROBENZENE	104	86 - 115
1,2-DICHLOROETHANE-D4	98	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **SOIL**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Chromium VI		0.010U	0.010	MG/KG	11/17/93	EPA7196

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
ANALYSIS DATE: 11/12/93
DILUTION FACTOR: 1.0
UNITS: **UG/KG**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	3.8	J	10	1,1,2-Trichloroethane	5	U	5
Acetone	4.7	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
.ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.5	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUOROBENZENE	97	74 - 121
1,2-DICHLOROETHANE-D4	100	70 - 120

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
EXTRACTION DATE: **11/09/93**
ANALYSIS DATE: **11/14/93**
DILUTION FACTOR: **0.033**
UNITS: **MG/KG**

	Result	Qual	Reporting Limit
Phenol	0.330	U	0.330
bis(2-Chloroethyl)ether	0.330	U	0.330
2-Chlorophenol	0.330	U	0.330
1,3-Dichlorobenzene	0.330	U	0.330
1,4-Dichlorobenzene	0.330	U	0.330
Benzyl alcohol	0.330	U	0.330
1,2-Dichlorobenzene	0.330	U	0.330
2-Methylphenol	0.330	U	0.330
ˋ(2-Chloroisopropyl)ether	0.330	U	0.330
.ethylphenol	0.330	U	0.330
N-Nitroso-di-n-propylamine	0.330	U	0.330
Hexachloroethane	0.330	U	0.330
Nitrobenzene	0.330	U	0.330
Isophorone	0.330	U	0.330
2-Nitrophenol	0.330	U	0.330
2,4-Dimethylphenol	0.330	U	0.330
Benzoic Acid	0.330	U	0.330
bis(2-Chloroethoxy)methane	0.330	U	0.330
2,4-Dichlorophenol	0.330	U	0.330
1,2,4-Trichlorobenzene	0.330	U	0.330
Naphthalene	0.330	U	0.330
4-Chloroaniline	0.330	U	0.330
Hexachlorobutadiene	0.330	U	0.330
4-Chloro-3-methylphenol	0.330	U	0.330
2-Methylnaphthalene	0.330	U	0.330
Hexachlorocyclopentadiene	0.330	U	0.330
2,4,6-Trichlorophenol	0.330	U	0.330
2,4,5-Trichlorophenol	0.825	U	0.825
2-Chloronaphthalene	0.330	U	0.330
2-Nitroaniline	0.825	U	0.825
Dimethylphthalate	0.330	U	0.330
Acenaphthylene	0.330	U	0.330

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	0.330	U	0.330
3-Nitroaniline	0.825	U	0.825
Acenaphthene	0.330	U	0.330
2,4-Dinitrophenol	0.825	U	0.825
4-Nitrophenol	0.825	U	0.825
Dibenzofuran	0.330	U	0.330
2,4-Dinitrotoluene	0.330	U	0.330
Diethylphthalate	0.330	U	0.330
4-Chlorophenyl-phenylether	0.330	U	0.330
Fluorene	0.330	U	0.330
4-Nitroaniline	0.825	U	0.825
4,6-Dinitro-2-methylphenol	0.825	U	0.825
N-Nitrosodiphenylamine (1)	0.330	U	0.330
4-Bromophenyl-phenylether	0.330	U	0.330
Hexachlorobenzene	0.330	U	0.330
Pentachlorophenol	0.825	U	0.825
Phenanthrene	0.330	U	0.330
Anthracene	0.330	U	0.330
Di-n-butylphthalate	0.330	U	0.330
Fluoranthene	0.330	U	0.330
Pyrene	0.330	U	0.330
Butylbenzylphthalate	0.330	U	0.330
3,3'-Dichlorobenzidine	0.330	U	0.330
Benzo(a)anthracene	0.330	U	0.330
Chrysene	0.330	U	0.330
bis(2-Ethylhexyl)phthalate	0.330	U	0.330
Di-n-octylphthalate	0.330	U	0.330
Benzo(b)fluoranthene	0.330	U	0.330
Benzo(k)fluoranthene	0.330	U	0.330
Benzo(a)pyrene	0.330	U	0.330
Indeno(1,2,3-cd)pyrene	0.330	U	0.330
Dibenzo(a,h)anthracene	0.330	U	0.330
Benzo(g,h,i)perylene	0.330	U	0.330

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	51	23 - 120
2-Fluorobiphenyl	69	30 - 115
Terphenyl-D14	78	18 - 137
Phenol-D5	51	24 - 113
2-Fluorophenol	41	25 - 121
2,4,6-Tribromcphenol	69	19 - 122

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE: **not spec**
SAMPLE MATRIX: **SOIL**
DILUTION FACTOR (6010): 1.0
UNITS: **MG/KG**

	Result	Result Qual	Reporting Limit	Method Reference	Analysis Date
Arsenic	0.010	U	0.010	7060	11/19/93
Aluminum	0.23		0.20	6010	11/18/93
Barium	0.20	U	0.20	6010	11/18/93
Beryllium	0.0050	U	0.0050	6010	11/18/93
Cadmium	0.0050	U	0.0050	6010	11/18/93
Chromium	0.010	U	0.010	6010	11/18/93
Copper	0.025	U	0.025	6010	11/18/93
Iron	0.10	U	0.10	6010	11/18/93
Nickel	0.040	U	0.040	6010	11/18/93
Lead	0.0030	U	0.0030	7421	11/19/93
Mercury	0.00020	U	0.00020	7471	11/19/93
Silver	0.010	U	0.010	6010	11/18/93
Zinc	0.020	U	0.020	6010	11/18/93

Data qualifier key:

E - estimated value
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

NOTE: Dilution Factor applies to Method 6010 only.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **11/12/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
' 1-Dichloroethane	5	U	5	Bromoform	5	U	5
ns-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	96	88 - 110
BROMOFLUOROBENZENE	107	86 - 115
1,2-DICHLOROETHANE-D4	100	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

Referenced notes for this work order:

B311077

Prep blank for ICPES analysis had aluminum concentration greater than the PQL (230 ppb). This concentration was less than 5% of all batched soil samples' concentration.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Cation Exchange Capacity** TEST CODE **CEC_A**

Cation exchange Capacity	Part 2: Chemical and microbiological properties method 57-3. American Society of Agronomy, Methods of soil Analysis 2nd Edition.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME **Grain Size Distriubtion** TEST CODE **GRAIN**

Method not available.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water. Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK2**

Method not available.

TEST NAME **Moisture Content** TEST CODE **MOIS_G**

Method not available.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Vertical Permeability** TEST CODE **V_PERM**

Method not available.

Company: IT CORPORATION
Date: 12/10/93
Client Work ID: D.O.5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-11-077

TEST NAME **GFAA Digestion - Soil** TEST CODE **Z3050F**

Soil Digestion — Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace/Flame AA analysis.

TEST NAME **ICPES Digestion - Soil** TEST CODE **Z3050P**

Soil Digestion — Method 3050, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for ICPES analysis. Equivalent to Method 3050A, SW-846 Update I, July 1992.

B311071

314069

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document
Page 1 of 1

Project Name/No. 1 TAFB 409832.003.01
Samples Shipment Date 7 11-4-93
Bill to: 5 409832.003 DD. 5001
Sample Team Members 2 L. Rodriguez, M. Wilson
Lab Destination 8 ITAS-Austin
Profit Center No. 3 3527
Lab Contact 9 Karmen Dean
Project Manager 4 Jimmy Taylor
Project Contact/Phone 12 405-736-2260 Dan McGregor
Report to: 10 Tim Jennings IT-Austin.
Purchase Order No. 6 409832.003
Carrier/Waybill No. 13 Fed Ex 8444166065
Required Report Date 11 11-19-93

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
A1523	~~2-68A~~ Trip Blank	~~10-4-93~~ 10-21-93 1700	Clear glass vial	40ml	HCl ice	VOA 8240	Good 4°C RVR 11-5-93	B3244100 10/21/93 1700 cc
A1524	SB 2-68A Soil	11-4-93/1305	Clear Glass Jar	125 ml	ice	VOA 8240		
A1524 (MS/MSD)	Soil SB 2-68A	11-4-93/1305		500 ml		Metals 6010/7000 SVOC 8270	Rec 2 500ml	
A1525	Soil SB 2-68A 10'	1315		125 ml		VOA 8240		
A1525	SB-2-68A/10'	1315		500 ml		Metals 6010/7000 SVOC 8270		
A1526	SB 2-68A/17'	1323		125 ml		VOA 8240		
A1526	SB 2-68A/17'	1323		500 ml		Metals 6010/7000 SVOC 8270		
2-68A14.5	Geotech Soil 14.5'	1318	SS liner (3)	518cc		* comments		

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

Turnaround Time Required: 26
Normal ☑ Rush ☐

QC Level: 27
I. ☑ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by 28 (Signature/Affiliation) Luis Rodriguez	Date: 11-4-93 Time: 1640	1. Received by 28 (Signature/Affiliation) [signature] IT	Date: 11-5-93 Time: 0905
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29 ~~Amt~~ Test for Cation Exchange Capacity, Moisture Content, grain size distribution, ~~vertical~~ vertical permeability

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : A1524

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
01B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	96.2
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	9.9
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	111
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	192

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : A1524-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	112
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	10.1
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	102
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	449

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : A1524-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	101
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	10.2
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	109
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	101

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : A1525

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	91.7
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	9.8
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	105
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	367

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : A1526

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	102
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	10.2
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	133
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	102

Auxiliary Data Summary 12/09/93

Work order : B311077 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08B						
	Arsenic	B311077-08B	11163050F1	11/16/93	11/19/93	1.0
	Chromium VI	B311077-08B	1117CR_VI1	11/17/93	11/17/93	1.0
	Mercury	B311077-08B	1119HGAA2	11/19/93	11/19/93	1.0
	Lead	B311077-08B	11163050F1	11/16/93	11/19/93	1.0

TPJ

1/11/94

Ended to CFTL, KH

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT CORPORATION
1250 CAPITAL OF TX HWY
BLDG. 3, SUITE 200
AUSTIN, TX 78746-6443
TIM JENNINGS

Date: 01/10/94

Work Order: B3-12-154

This is the Certificate of Analysis for the following samples:

Client Work ID: D.O. 5001 409832-003-01
Date Received: 12/10/93
Number of Samples: 12
Sample Type: WATER

I. Introduction

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
A1598	B3-12-154-01
A1591	B3-12-154-02
A1592	B3-12-154-03
A1593	B3-12-154-04
A1594	B3-12-154-05
A1595	B3-12-154-06
A1591-MS	B3-12-154-07
A1595-MS	B3-12-154-07
A1591-MSD	B3-12-154-08
A1595-MSD	B3-12-154-08
A1596	B3-12-154-09
A1597	B3-12-154-10
LAB BLANK	B3-12-154-11

Reviewed and Approved:

Jon Bartell
Laboratory Director

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
LAB BLANK #2	B3-12-154-12

II. QA/QC

The results presented in this report meet the statement of work requirements in accordance with Quality Control and Quality Assurance protocol except as noted in Section IV or in an optional sample narrative at the end of Section III.

In the presented analytical data, 'ND' or '<' indicates that the compound is not detected at the specified limit.

III. Analytical Data

The following page(s) supply results for requested analyses performed on the samples listed above.

The test results relate to tested items only. ITAS-Austin reserves the right to control report production except in whole.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1598**
SAMPLE DATE: **12/02/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/16/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	97	88 - 110
BROMOFLUOROBENZENE	99	86 - 115
1,2-DICHLOROETHANE-D4	106	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1591**
SAMPLE DATE: **12/09/93 15:00:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		430	10	MG/L as CaCO3	12/15/93	EPA310_1
TPH - IR		1.1U	1.1	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		110	10	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		0.067	0.050	MG/L	12/14/93	EPA353_2
Silica		8.6	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		18	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		690	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		2.5	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids		140	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1591**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/17/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	96	88 - 110
BROMOFLUOROBENZENE	94	86 - 115
1,2-DICHLOROETHANE-D4	105	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1591**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/20/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit
.henol	10	U	10
bis(2-Chloroethyl)ether	10	U	10
2-Chlorophenol	10	U	10
1,3-Dichlorobenzene	10	U	10
1,4-Dichlorobenzene	10	U	10
Benzyl alcohol	10	U	10
1,2-Dichlorobenzene	10	U	10
2-Methylphenol	10	U	10
is(2-Chloroisopropyl)ether	10	U	10
-Methylphenol	10	U	10
N-Nitroso-di-n-propylamine	10	U	10
Hexachloroethane	10	U	10
Nitrobenzene	10	U	10
Isophorone	10	U	10
2-Nitrophenol	10	U	10
2,4-Dimethylphenol	10	U	10
Benzoic Acid	10	U	10
bis(2-Chloroethoxy)methane	10	U	10
2,4-Dichlorophenol	10	U	10
1,2,4-Trichlorobenzene	10	U	10
Naphthalene	10	U	10
4-Chloroaniline	10	U	10
Hexachlorobutadiene	10	U	10
4-Chloro-3-methylphenol	10	U	10
2-Methylnaphthalene	10	U	10
Hexachlorocyclopentadiene	10	U	10
2,4,6-Trichlorophenol	10	U	10
2,4,5-Trichlorophenol	10	U	10
2-Chloronaphthalene	10	U	10
2-Nitroaniline	25	U	25
Dimethylphthalate	10	U	10
Acenaphthylene	10	U	10

	Result	Qual	Reporting Limit
2,6-Dinitrotoluene	10	U	10
3-Nitroaniline	25	U	25
Acenaphthene	10	U	10
2,4-Dinitrophenol	25	U	25
4-Nitrophenol	25	U	25
Dibenzofuran	10	U	10
2,4-Dinitrotoluene	10	U	10
Diethylphthalate	2.0	J	10
4-Chlorophenyl-phenylether	10	U	10
Fluorene	10	U	10
4-Nitroaniline	10	U	10
4,6-Dinitro-2-methylphenol	25	U	25
N-Nitrosodiphenylamine (1)	10	U	10
4-Bromophenyl-phenylether	10	U	10
Hexachlorobenzene	10	U	10
Pentachlorophenol	25	U	25
Phenanthrene	10	U	10
Anthracene	10	U	10
Di-n-butylphthalate	10	U	10
Fluoranthene	10	U	10
Pyrene	10	U	10
Butylbenzylphthalate	10	U	10
3,3'-Dichlorobenzidine	10	U	10
Benzo(a)anthracene	10	U	10
Chrysene	10	U	10
bis(2-Ethylhexyl)phthalate	13		10
Di-n-octylphthalate	10	U	10
Benzo(b)fluoranthene	10	U	10
Benzo(k)fluoranthene	10	U	10
Benzo(a)pyrene	10	U	10
Indeno(1,2,3-cd)pyrene	10	U	10
Dibenzo(a,h)anthracene	10	U	10
Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1591**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	89	35 - 114
2-Fluorobiphenyl	89	43 - 116
Terphenyl-D14	84	33 - 141
Phenol-D5	80	10 - 94
2-Fluorophenol	69	21 - 100
2,4,6-Tribromophenol	88	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1591**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	2.9	N	0.20
Barium	0.70	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	67	N	5.0
Chromium	0.010	UN	0.010
Copper	0.025	UN	0.025
Iron	3.5	N	0.10
Magnesium	27	N	5.0
Manganese	0.14	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	98	N	5.0
Zinc	0.020	UN	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1592**
SAMPLE DATE: **12/09/93 15:20:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		410	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		1.1U	1.1	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		52	5.0	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		4.9	0.50	MG/L	12/14/93	EPA353_2
Silica		7.2	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		9.4	5.0	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		490	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		1.0U	1.0	MG/L	12/21/93	EPA415_1
Total Suspended Solids		62	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1592**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/17/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	1.8	J	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	29		5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	49		5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	96	88 - 110
BROMOFLUOROBENZENE	94	86 - 115
1,2-DICHLOROETHANE-D4	98	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1592**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
bis(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
4-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1592**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	88	35 - 114
2-Fluorobiphenyl	89	43 - 116
Terphenyl-D14	80	33 - 141
Phenol-D5	82	10 - 94
2-Fluorophenol	74	21 - 100
2,4,6-Tribromophenol	96	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1592**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	1.1	N	0.20
Barium	0.53	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	60	N	5.0
Chromium	0.018	N	0.010
Copper	0.025	UN	0.025
Iron	1.9	N	0.10
Magnesium	34	N	5.0
Manganese	0.025	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	43	N	5.0
Zinc	0.023	N	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1593**
SAMPLE DATE: **12/09/93 15:50:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		420	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		0.97U	0.97	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		110	25	MG/L	01/10/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		7.4	0.50	MG/L	12/14/93	EPA353_2
Silica		6.1	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		20	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		690	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		2.8	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids		270	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1593**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/17/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	46		5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	6.4		5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	2.2	J	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	99		5	2-Chloroethylvinyl ether	10	U	10
,1-Dichloroethane	21		5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	20		5	4-Methyl-2-pentanone	50	U	50
Chloroform	6.2		5	Tetrachloroethene	91		5
1,2-Dichloroethane	45		5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	16		5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	99	88 - 110
BROMOFLUOROBENZENE	98	86 - 115
1,2-DICHLOROETHANE-D4	101	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1593**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	1.8	J	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
is(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1593**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	83	35 - 114
2-Fluorobiphenyl	83	43 - 116
Terphenyl-D14	78	33 - 141
Phenol-D5	78	10 - 94
2-Fluorophenol	71	21 - 100
2,4,6-Tribromophenol	86	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1593**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	6.2	N	0.20
Barium	0.75	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	67	N	5.0
Chromium	0.012	N	0.010
Copper	0.025	UN	0.025
Iron	7.1	N	0.10
Magnesium	35	N	5.0
Manganese	0.34	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	76	N	5.0
Zinc	0.020	UN	0.020

Data qualifier key:
E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1594**
SAMPLE DATE: **12/09/93 15:50:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		390	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		0.96U	0.96	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		110	10	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		7.4	0.50	MG/L	12/14/93	EPA353_2
Silica		5.6	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		20	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		670	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		3.4	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids		380	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1594**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/17/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	47		5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	33		5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	2.3	J	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	100		5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	21		5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	21		5	4-Methyl-2-pentanone	50	U	50
Chloroform	6.4		5	Tetrachloroethene	89		5
1,2-Dichloroethane	45		5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	2.1	J	100	Toluene	8.1		5
1,1,1-Trichloroethane	17		5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	95	88 - 110
BROMOFLUOROBENZENE	96	86 - 115
1,2-DICHLOROETHANE-D4	103	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1594**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	1.9	J	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
is(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1594**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	83	35 - 114
2-Fluorobiphenyl	85	43 - 116
Terphenyl-D14	78	33 - 141
Phenol-D5	83	10 - 94
2-Fluorophenol	71	21 - 100
2,4,6-Tribromophenol	93	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1594**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	6.4	N	0.20
Barium	0.78	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	71	N	5.0
Chromium	0.012	N	0.010
Copper	0.025	UN	0.025
Iron	6.9	N	0.10
Magnesium	37	N	5.0
Manganese	0.33	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	81	N	5.0
Zinc	0.020	UN	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1595**
SAMPLE DATE: **12/09/93 16:30:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		400	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		0.5U	0.5	MG/L	12/20/93	EPA418_1
Phenolics		0.042	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		89	20	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		36	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.014	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		ND	0.050	MG/L	12/14/93	EPA353_2
Silica		11	5.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		11	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		530	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		4.8	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids	1	17	10	MG/L	12/28/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Referenced notes for these results:

1 Original analysis high compared to duplicate. The sample and duplicate were rerun 12/28/93. The results from the rerun are reported.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1595**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/17/93**
DILUTION FACTOR: **10**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	100	U	100	1,2-Dichloropropane	37	J	50
Bromomethane	100	U	100	trans-1,3-Dichloropropene	50	U	50
Vinyl chloride	100	U	100	Trichloroethene	48	J	50
Chloroethane	100	U	100	Chlorodibromomethane	50	U	50
Methylene chloride	42	J	100	1,1,2-Trichloroethane	50	U	50
Acetone	1000	U	1000	Benzene	280		50
Carbon disulfide	50	U	50	cis-1,3-Dichloropropene	50	U	50
1,1-Dichloroethene	50	U	50	2-Chloroethylvinyl ether	100	U	100
,1-Dichloroethane	50	U	50	Bromoform	50	U	50
-rans-1,2-Dichloroethene	50	U	50	2-Hexanone	500	U	500
cis-1,2-Dichloroethene	120		50	4-Methyl-2-pentanone	500	U	500
Chloroform	50	U	50	Tetrachloroethene	50	U	50
1,2-Dichloroethane	13000	D	500	1,1,2,2-Tetrachloroethane	50	U	50
2-Butanone	1000	U	1000	Toluene	20	J	50
1,1,1-Trichloroethane	50	U	50	Chlorobenzene	50	U	50
Carbon tetrachloride	50	U	50	Ethylbenzene	25	J	50
Vinyl acetate	100	U	100	Styrene	50	U	50
Dichlorobromomethane	50	U	50	Xylenes, total	28	J	50

Surrogates	% Recovery	Limits
TOLUENE-D8	97	88 - 110
BROMOFLUOROBENZENE	102	86 - 115
1,2-DICHLOROETHANE-D4	104	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1595**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	34		10	Diethylphthalate	10	U	10
bis(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
4-Methylphenol	1.4	J	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	4.2	J	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1595**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	87	35 - 114
2-Fluorobiphenyl	86	43 - 116
Terphenyl-D14	76	33 - 141
Phenol-D5	90	10 - 94
2-Fluorophenol	78	21 - 100
2,4,6-Tribromophenol	98	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1595**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	0.20	UN	0.20
Barium	1.4	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	66	N	5.0
Chromium	0.010	UN	0.010
Copper	0.025	UN	0.025
Iron	0.62	N	0.10
Magnesium	36	N	5.0
Manganese	0.63	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	48	N	5.0
Zinc	0.020	UN	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1595-MS**
SAMPLE DATE: **12/09/93 16:30:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric	1	400	10	MG/L AS CACO3	12/15/93	EPA310_1
TPH - IR		95		% REC	12/20/93	EPA418_1
Phenolics		78		% REC	01/06/94	EPA9066
Chloride by Ion Chrom.		108		% REC	01/05/94	EPA300_0
Chemical Oxygen Demand		91		% REC	12/28/93	EPA410_4
Chromium VI		92		% REC	12/10/93	EPA7196
Nitrate and Nitrite		101		% REC	12/14/93	EPA353_2
Silica		101		% REC	12/29/93	370_1
Sulfate by Ion Chrom.		87		% REC	01/05/94	EPA300_0
Total Dissolved Solids	2	530	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		117		% REC	01/07/94	EPA351_3
Total Organic Carbon		108		% REC	12/20/93	EPA415_1
Total Suspended Solids	3	16	10	MG/L	12/17/93	EPA160_2
Total Phosphorus		100		% REC	01/07/94	EPA365_3

Referenced notes for these results:

1 Duplicate analysis performed in lieu of a matrix spike.

2 Duplicate analysis performed in lieu of a matrix spike.

3 Duplicate analysis performed in lieu of a matrix spike.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1591-MS**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/17/93**
DILUTION FACTOR: **1.0**
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	91	Trichloroethene	90
		Benzene	92
		Toluene	98
		Chlorobenzene	100

Surrogates	% Recovery	Limits
TOLUENE-D8	107	88 - 110
BROMOFLUOROBENZENE	99	86 - 115
1,2-DICHLOROETHANE-D4	99	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1595-MS**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: 12/15/93
ANALYSIS DATE: 12/21/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
Phenol	81	Acenaphthene	92
2-Chlorophenol	87	4-Nitrophenol	78
1,4-Dichlorobenzene	78	2,4-Dinitrotoluene	77
N-Nitroso-di-n-propylamine	72	Pentachlorophenol	110
1,2,4-Trichlorobenzene	84	Pyrene	99
4-Chloro-3-methylphenol	91		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	88	35 - 114
2-Fluorobiphenyl	83	43 - 116
Terphenyl-D14	87	33 - 141
Phenol-D5	79	10 - 94
2-Fluorophenol	78	21 - 100
2,4,6-Tribromophenol	94	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1595-MS**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **% REC**

	Result
Aluminum	79
Barium	87
Cadmium	70
Calcium	52
Chromium	72
Copper	69
Iron	75
Magnesium	65
Manganese	64
Nickel	68
Potassium	77
Selenium	72
Silver	71
Sodium	63
Zinc	70

Data qualifier key:
E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Referenced notes for these results:

Matrix spike outside of control limits due to matrix interference for the analysis of silver, aluminum, cadmium, chromium, copper, iron, potassium, manganese, nickle, selenium, and zinc by ICPES. LCS / LCSD results and method Quality Control within acceptance limits.

Matrix spike and % RPD for matrix spikes outside of control limits due to matrix interference for the analysis of calcium, magnesium, and sodium by ICPES. LCS / LCSD results and method Quality Control within acceptance limits.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1595-MSD**
SAMPLE DATE: **12/09/93 16:30:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric	1	410	10	MG/L AS CACO3	12/15/93	EPA310_1
TPH - IR		100		% REC	12/20/93	EPA418_1
Phenolics		88		% REC	01/06/94	EPA9066
Chloride by Ion Chrom.		115		% REC	01/05/94	EPA300_0
Chemical Oxygen Demand		86		% REC	12/28/93	EPA410_4
Chromium VI		94		% REC	12/10/93	EPA7196
Nitrate and Nitrite		96		% REC	12/14/93	EPA353_2
Silica		103		% REC	12/29/93	370_1
Sulfate by Ion Chrom.		85		% REC	01/05/94	EPA300_0
Total Dissolved Solids	2	550	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		118		% REC	01/07/94	EPA351_3
Total Organic Carbon		105		% REC	12/20/93	EPA415_1
Total Suspended Solids	3	14	10	MG/L	12/17/93	EPA160_2
Total Phosphorus		98		% REC	01/07/94	EPA365_3

Referenced notes for these results:

1 Duplicate analysis performed in lieu of a matrix spike.

2 Duplicate analysis performed in lieu of a matrix spike.

3 Duplicate analysis performed in lieu of a matrix spike.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1591-MSD**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/17/93
DILUTION FACTOR: 1.0
UNITS: **% REC**

	Result		Result
1,1-Dichloroethene	87	Trichloroethene	86
		Benzene	90
		Toluene	95
		Chlorobenzene	99

Surrogates	% Recovery	Limits
TOLUENE-D8	107	88 - 110
BROMOFLUOROBENZENE	99	86 - 115
1,2-DICHLOROETHANE-D4	96	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1595-MSD**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: 12/15/93
ANALYSIS DATE: 12/21/93
DILUTION FACTOR: 1.0
UNITS: % REC

	Result		Result
Phenol	81	Acenaphthene	96
2-Chlorophenol	88	4-Nitrophenol	82
1,4-Dichlorobenzene	78	2,4-Dinitrotoluene	84
N-Nitroso-di-n-propylamine	74	Pentachlorophenol	109
1,2,4-Trichlorobenzene	89	Pyrene	102
4-Chloro-3-methylphenol	95		

Surrogates	% Recovery	Limits
Nitrobenzene-D5	91	35 - 114
2-Fluorobiphenyl	86	43 - 116
Terphenyl-D14	88	33 - 141
Phenol-D5	82	10 - 94
2-Fluorophenol	78	21 - 100
2,4,6-Tribromophenol	97	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample
'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1595-MSD**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.00000
UNITS: **% REC**

	Result
Aluminum	87
Barium	112
Cadmium	76
Calcium	96
Chromium	78
Copper	76
Iron	82
Magnesium	92
Manganese	77
Nickel	74
Potassium	85
Selenium	74
Silver	77
Sodium	97
Zinc	76

Data qualifier key:
E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Referenced notes for these results:

Matrix spike duplicate outside of control limits due to matrix interference for the analysis of silver, cadmium, chromium, copper, nickle, selenium, and zinc by ICPES. LCS / LCSD results and method Quality Control within acceptance limits.

The % RPD for matrix spikes outside of control limits for the analysis of barium, calcium, magnesium, and sodium by ICPES. LCS / LCSD results and method Quality Control within acceptance limits.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1596**
SAMPLE DATE: **12/09/93 17:10:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		410	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		0.96U	0.96	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		110	10	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		3.1	0.50	MG/L	12/14/93	EPA353_2
Silica		8.1	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		17	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		630	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		1.4	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids		410	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.13	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1596**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: **12/17/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	2.4	J	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	25	J	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	26		5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	2.5	J	5	4-Methyl-2-pentanone	50	U	50
Chloroform	6.2		5	Tetrachloroethene	98		5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	9.8		5	Chlorobenzene	5	U	5
Carbon tetrachloride	2.3	J	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	98	88 - 110
BROMOFLUOROBENZENE	99	86 - 115
1,2-DICHLOROETHANE-D4	106	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1596**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
bis(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
4-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1596**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	88	35 - 114
2-Fluorobiphenyl	86	43 - 116
Terphenyl-D14	78	33 - 141
Phenol-D5	79	10 - 94
2-Fluorophenol	70	21 - 100
2,4,6-Tribromophenol	78	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1596**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/06/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	13	N	0.20
Barium	3.5	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	88	N	5.0
Chromium	0.030	N	0.010
Copper	0.025	UN	0.025
Iron	18	N	0.10
Magnesium	45	N	5.0
Manganese	1.2	N	0.015
Nickel	0.040	UN	0.040
Potassium	5.0	UN	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	74	N	5.0
Zinc	0.033	N	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **A1597**
SAMPLE DATE: **12/09/93 17:30:00**
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		400	10	MG/L as CaCo3	12/15/93	EPA310_1
TPH - IR		1.3U	1.3	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		72	10	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		3.0	0.50	MG/L	12/14/93	EPA353_2
Silica		9.2	2.0	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		16	10	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		500	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		1.4	1.0	MG/L	12/20/93	EPA415_1
Total Suspended Solids		16	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **A1597**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/17/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	36		5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
1,1-Dichloroethane	5	U	5	Bromoform	5	U	5
trans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	3.2	J	5	4-Methyl-2-pentanone	50	U	50
Chloroform	510	D	25	Tetrachloroethene	5	U	5
1,2-Dichloroethane	86		5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	290	D	25	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	98	88 - 110
BROMOFLUOROBENZENE	97	86 - 115
1,2-DICHLOROETHANE-D4	90	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1597**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: **12/15/93**
ANALYSIS DATE: **12/21/93**
DILUTION FACTOR: **1.0**
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
bis(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
4-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN BSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **A1597**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	86	35 - 114
2-Fluorobiphenyl	82	43 - 116
Terphenyl-D14	79	33 - 141
Phenol-D5	82	10 - 94
2-Fluorophenol	72	21 - 100
2,4,6-Tribromophenol	88	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **A1597**
SAMPLE DATE: **12/09/93**
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/06/94**
DILUTION FACTOR: 1.00000
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	0.72	N	0.20
Barium	0.54	N	0.20
Cadmium	0.0050	UN	0.0050
Calcium	56	N	5.0
Chromium	0.010	UN	0.010
Copper	0.025	UN	0.025
Iron	2.1	N	0.10
Magnesium	35	N	5.0
Manganese	0.052	N	0.015
Nickel	0.040	UN	0.040
Potassium	7.6	N	5.0
Selenium	0.10	UN	0.10
Silver	0.010	UN	0.010
Sodium	49	N	5.0
Zinc	0.024	N	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**

Test Name	Note Ref	Result	Reporting Limit	Units	Date Analyzed	Method Reference
Alkalinity, Titrimetric		10U	10	MG/L as CaCO3	12/15/93	EPA310_1
TPH - IR		1.0U	1.0	MG/L	12/27/93	EPA418_1
Phenolics		0.010U	0.010	MG/L	01/06/94	EPA9066
Chloride by Ion Chrom.		1.0U	1.0	MG/L	01/05/94	EPA300_0
Chemical Oxygen Demand		25U	25	MG/L	12/28/93	EPA410_4
Chromium VI		0.010U	0.010	MG/L	12/10/93	EPA7196
Nitrate and Nitrite		0.050U	0.050	MG/L	12/14/93	EPA353_2
Silica		0.20U	0.20	MG/L	12/29/93	370_1
Sulfate by Ion Chrom.		1.0U	1.0	MG/L	01/05/94	EPA300_0
Total Dissolved Solids		10U	10	MG/L	12/14/93	EPA160_1
Total Kjeldahl Nitrogen		0.25U	0.25	MG/L	01/07/94	EPA351_3
Total Organic Carbon		1.0U	1.0	MG/L	12/21/93	EPA415_1
Total Suspended Solids		10U	10	MG/L	12/14/93	EPA160_2
Total Phosphorus		0.10U	0.10	MG/L	01/07/94	EPA365_3

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/16/93
DILUTION FACTOR: 1.0
UNITS: **UG/L**

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
,1-Dichloroethane	5	U	5	Bromoform	5	U	5
rans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	100	U	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	96	88 - 110
BROMOFLUOROBENZENE	99	86 - 115
1,2-DICHLOROETHANE-D4	108	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
EXTRACTION DATE: 12/15/93
ANALYSIS DATE: 12/20/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Phenol	10	U	10	2,6-Dinitrotoluene	10	U	10
bis(2-Chloroethyl)ether	10	U	10	3-Nitroaniline	25	U	25
2-Chlorophenol	10	U	10	Acenaphthene	10	U	10
1,3-Dichlorobenzene	10	U	10	2,4-Dinitrophenol	25	U	25
1,4-Dichlorobenzene	10	U	10	4-Nitrophenol	25	U	25
Benzyl alcohol	10	U	10	Dibenzofuran	10	U	10
1,2-Dichlorobenzene	10	U	10	2,4-Dinitrotoluene	10	U	10
2-Methylphenol	10	U	10	Diethylphthalate	10	U	10
bis(2-Chloroisopropyl)ether	10	U	10	4-Chlorophenyl-phenylether	10	U	10
4-Methylphenol	10	U	10	Fluorene	10	U	10
N-Nitroso-di-n-propylamine	10	U	10	4-Nitroaniline	10	U	10
Hexachloroethane	10	U	10	4,6-Dinitro-2-methylphenol	25	U	25
Nitrobenzene	10	U	10	N-Nitrosodiphenylamine (1)	10	U	10
Isophorone	10	U	10	4-Bromophenyl-phenylether	10	U	10
2-Nitrophenol	10	U	10	Hexachlorobenzene	10	U	10
2,4-Dimethylphenol	10	U	10	Pentachlorophenol	25	U	25
Benzoic Acid	10	U	10	Phenanthrene	10	U	10
bis(2-Chloroethoxy)methane	10	U	10	Anthracene	10	U	10
2,4-Dichlorophenol	10	U	10	Di-n-butylphthalate	10	U	10
1,2,4-Trichlorobenzene	10	U	10	Fluoranthene	10	U	10
Naphthalene	10	U	10	Pyrene	10	U	10
4-Chloroaniline	10	U	10	Butylbenzylphthalate	10	U	10
Hexachlorobutadiene	10	U	10	3,3'-Dichlorobenzidine	10	U	10
4-Chloro-3-methylphenol	10	U	10	Benzo(a)anthracene	10	U	10
2-Methylnaphthalene	10	U	10	Chrysene	10	U	10
Hexachlorocyclopentadiene	10	U	10	bis(2-Ethylhexyl)phthalate	10	U	10
2,4,6-Trichlorophenol	10	U	10	Di-n-octylphthalate	10	U	10
2,4,5-Trichlorophenol	10	U	10	Benzo(b)fluoranthene	10	U	10
2-Chloronaphthalene	10	U	10	Benzo(k)fluoranthene	10	U	10
2-Nitroaniline	25	U	25	Benzo(a)pyrene	10	U	10
Dimethylphthalate	10	U	10	Indeno(1,2,3-cd)pyrene	10	U	10
Acenaphthylene	10	U	10	Dibenzo(a,h)anthracene	10	U	10
				Benzo(g,h,i)perylene	10	U	10

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
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409832-003-01 Work Order: B3-12-154

TEST NAME: **ABN HSL GC/MS Extractables**
METHOD REFERENCE: **EPA8270**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**

Surrogates	% Recovery	Limits
Nitrobenzene-D5	88	35 - 114
2-Fluorobiphenyl	86	43 - 116
Terphenyl-D14	84	33 - 141
Phenol-D5	40	10 - 94
2-Fluorophenol	51	21 - 100
2,4,6-Tribromophenol	90	10 - 123

(1) N-Nitrosodiphenylamine cannot be separated from diphenylamine.

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

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409832-003-01 Work Order: B3-12-154

TEST NAME: **Metals**
METHOD REFERENCE: **EPA6010**

SAMPLE ID: **LAB BLANK**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
PREP DATE: 12/16/93
ANALYSIS DATE: **01/05/94**
DILUTION FACTOR: 1.0
UNITS: **MG/L**

	Result	Qual	Reporting Limit
Aluminum	0.20	U	0.20
Barium	0.20	U	0.20
Cadmium	0.0050	U	0.0050
Calcium	5.0	U	5.0
Chromium	0.010	U	0.010
Copper	0.025	U	0.025
Iron	0.10	U	0.10
Magnesium	5.0	U	5.0
Manganese	0.015	U	0.015
Nickel	0.040	U	0.040
Potassium	5.0	U	5.0
Selenium	0.010	U	0.010
Silver	0.010	U	0.010
Sodium	5.0	U	5.0
Zinc	0.020	U	0.020

Data qualifier key:

E - estimated value (see cover page)
M - duplicate injection precision not met
N - spike recovery not within control limits
S - determined by MSA
W - post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance
* - duplicate analysis outside control limits
+ - Correlation coefficient for the MSA <0.995
B - < CRDL but >= IDL
U - none detected
'blank' - positive result

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME: **Hazardous Substance Vols.**
METHOD REFERENCE: **EPA8240**

SAMPLE ID: **LAB BLANK #2**
SAMPLE DATE:
SAMPLE MATRIX: **WATER**
ANALYSIS DATE: 12/17/93
DILUTION FACTOR: 1.0
UNITS: UG/L

	Result	Qual	Reporting Limit		Result	Qual	Reporting Limit
Chloromethane	10	U	10	1,2-Dichloropropane	5	U	5
Bromomethane	10	U	10	trans-1,3-Dichloropropene	5	U	5
Vinyl chloride	10	U	10	Trichloroethene	5	U	5
Chloroethane	10	U	10	Chlorodibromomethane	5	U	5
Methylene chloride	10	U	10	1,1,2-Trichloroethane	5	U	5
Acetone	100	U	100	Benzene	5	U	5
Carbon disulfide	5	U	5	cis-1,3-Dichloropropene	5	U	5
1,1-Dichloroethene	5	U	5	2-Chloroethylvinyl ether	10	U	10
,1-Dichloroethane	5	U	5	Bromoform	5	U	5
rans-1,2-Dichloroethene	5	U	5	2-Hexanone	50	U	50
cis-1,2-Dichloroethene	5	U	5	4-Methyl-2-pentanone	50	U	50
Chloroform	5	U	5	Tetrachloroethene	5	U	5
1,2-Dichloroethane	5	U	5	1,1,2,2-Tetrachloroethane	5	U	5
2-Butanone	3.1	J	100	Toluene	5	U	5
1,1,1-Trichloroethane	5	U	5	Chlorobenzene	5	U	5
Carbon tetrachloride	5	U	5	Ethylbenzene	5	U	5
Vinyl acetate	10	U	10	Styrene	5	U	5
Dichlorobromomethane	5	U	5	Xylenes, total	5	U	5

Surrogates	% Recovery	Limits
TOLUENE-D8	101	88 - 110
BROMOFLUOROBENZENE	101	86 - 115
1,2-DICHLOROETHANE-D4	103	76 - 114

Data Qualifier Key:

U - none detected
J - estimated value (less than the sample quantitation limit)
B - analyte is found in the associated blank as well as in the sample 'blank' - positive result
* - Surrogate recovery is outside QC limit
D - compound identified at a secondary dilution factor
E - concentration exceeds calibration range

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

Arsenic Graphite Furnace	Method 7060, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 206.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes, EPA-600/4-82-055, December 1982.

TEST NAME **Chloride by Ion Chrom.** TEST CODE **CL_IC**

Chloride	USEPA 300.0 - The determination of inorganic anions in water by ion chromatography.

TEST NAME **Chemical Oxygen Demand** TEST CODE **COD**

COD	EPA 410.4 - Chemical Analysis of Water and Wastewater. Colorimetric analysis for Chemical Oxygen Demand.

TEST NAME **Chromium VI** TEST CODE **CR_VI**

Chromium VI	Method 7196, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Colorimetric analysis. Equivalent to Standard Methods 3500-Cr D.

TEST NAME **Mercury** TEST CODE **HG_AA**

Mercury	Method 7471, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Cold vapor atomic absorption. Method 7470 is used for water. Method 245.5-"Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Metals** TEST CODE **ICPTK4**

Method not available.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME **Nitrate and Nitrite** TEST CODE **NO3NO2**

Nitrate + Nitrite	Method 353.2-Chemical Analysis of Water and Wastewater. Colorimetric Automated Cadmium Reduction method using Lachat autoanalyzer for NO3 and NO2 as N.

TEST NAME **Lead - Graphite Furnace** TEST CODE **PB_GF**

Lead Graphite Furnace	EPA 7421, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. EPA 239.2-Technical Additions to Methods for Chemical Analysis of Water and Wastes," EPA-600/4-82-055, December 1982.

TEST NAME **Silica** TEST CODE **SIO2**

Silica	Method 370.1-Chemical Analysis of Water and Wastewater. Colorimetric Analysis. This is equal to ASTM D859B.

TEST NAME **Sulfate by Ion Chrom.** TEST CODE **SO4_IC**

Sulfate	USEPA Method 300.0 - The Determination of Inorganic Anions in Water by Ion Chromatography.

TEST NAME **Total Dissolved Solids** TEST CODE **TDS**

Total Dissolved Solids	Method 160.1-Chemical Analysis of Water and Wastewater. Gravimetric analysis.

TEST NAME **Total Kjeldahl Nitrogen** TEST CODE **TKN_N**

Kjeldahl Nitrogen	Method 351.3-Chemical Analysis of Water and Wastewater. Digestion and colorimetric analysis.

TEST NAME **Total Organic Carbon** TEST CODE **TOC**

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

TEST NAME **Total Organic Carbon** TEST CODE **TOC**

Total Organic Carbon	Method 415.1-Chemical Analysis of Water and Wastewater. Chemical oxidation and nondispersive infrared analysis. Equivalent to SW-846 Method 9060. Sample prep is instrument manufacturer specific.

TEST NAME **Total Suspended Solids** TEST CODE **TSS**

Total Suspended Solids	Method 160.2-Chemical Analysis of Water and Wastewater. Filtration and gravimetric analysis of non-filterable residue.

TEST NAME **Total Phosphorus** TEST CODE **T_P**

Total Phosphorus	Method 365.3-Chemical Analysis of Water and Wastewater. Digestion and colorimetric analysis.

TEST NAME **ICPES Digestion - Water** TEST CODE **Z3005**

Water Digestion	Method 3005A, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Digestion procedure for the preparation of surface and ground water samples for analysis by flame atomic absorption spectroscopy and inductively coupled plasma spectroscopy. The procedure determines total recoverable or dissolved metals.

TEST NAME **GFAA Digestion - Water** TEST CODE **Z3020**

Water Digestion	Method 3020, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. Acid digestion technique for Graphite Furnace.

Company: IT CORPORATION
Date: 01/10/94
Client Work ID: D.O. 5001

IT ANALYTICAL SERVICES
AUSTIN, TX
(512) 892-6684

409832-003-01 Work Order: B3-12-154

IV. Methodology

Requested analyses were performed according to the following methods.

TEST NAME **Alkalinity, Titrimetric** TEST CODE **310_1**

Alkalinity	EPA 310.1 - Chemical Analysis of Water and Wastewater. Titrimetric with sulfuric acid.

TEST NAME **TPH - IR** TEST CODE **418_1**

418_1	Method 418.1: Total Recoverable Petroleum Hydorcarbons, infrared spectrophotmetric method. Methods for the chemical analysis of water and wastes. USEPA.

TEST NAME **ICP Metals** TEST CODE **6010**

Metals by ICP	Inductively coupled emission spectroscopy according to Method 6010, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", SW-846, Third Edition.

TEST NAME **Hazardous Substance Vols.** TEST CODE **8240TK**

Hazardous Substance List Volatiles	Method 8240, SW-846, Test Methods for Evaluating Solid Wastes, Third Edition. GC/MS Purge and Trap analysis.

TEST NAME **ABN HSL GC/MS Extractables** TEST CODE **8270TK**

Hazardous Substance List Extractables	Method 8270, SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Acid/Base-Neutral extraction followed by GC/MS analysis.

TEST NAME **Phenolics** TEST CODE **9066**

Phenolics	SW-846 Method 9066. Total Recoverable Phenolics. Colorimetric, Automated 4-AAP with Distillation. Equivalent to EPA Method 420.2.

TEST NAME **Arsenic - Graphite Furnace** TEST CODE **AS_GF**

B312154

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 314020
Page 1 of 4

Project Name/No. [1] Tinker 5001/409832
Samples Shipment Date [7] 12/09/93
Bill to: [5] 409832.03.01 D.O. 5001
Sample Team Members [2] M. Wilson / J. Sherwin / K. Kirschenmann
Lab Destination [8] ITAS Austin
Profit Center No. [3] 3527
Lab Contact [9] Karmen Deane (405) 736-2260
Project Manager [4] Jimmy Taylor
Project Contact/Phone [12] Dan McGregor
Report to: [10] Tim Jennings IT Austin
Purchase Order No. [6] 409832.03.01
Carrier/Waybill No. [13] 8460755785
Required Report Date [11] Normal

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1598	TRIP BLANK	12-02-93 1700	clear glass	40ml	HCL	8240 VOC	Good, RUA 21043 Q 4°C	B3291020A
A1591	well Sludge Drying Water Beds	12-09-93 1500	clear glass	(2) 40ml	HCl	8240 VOC		B3291020A
			Amber glass	2.5L	ice	8270 SVOC		314603Z
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

Turnaround Time Required: [26]
Normal ☑ Rush ☐

QC Level: [27]
I. ☑ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) ITES Austin Matthew G. Wilson Date: 12/09/93 Time: 1820	1. Received by [28] (Signature/Affiliation) [signature] IT Date: 12-10-93 Time: 0853
2. Relinquished by (Signature/Affiliation) Date: Time:	2. Received by (Signature/Affiliation) Date: Time:
3. Relinquished by (Signature/Affiliation) Date: Time:	3. Received by (Signature/Affiliation) Date: Time:

Comments: [29]

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

MCA 3/15/91

B312154

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 314020
Page 2 of 4

Project Name Tinker 5001

Project No. 409832

Samples Shipment Date 12/09/93

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1591	Well Water / Sludge Drying Beds	12-09-93 1500	Plastic	125ml	ice	Cr^{6+} 7196	(cc) [illegible] RVA 12-10-93 [illegible]	
				1L	ice	Ground water parameters as per work plan		
A1592	Well Water / Sludge Drying Beds	12-09-93 1520	Clear glass	(2) 40ml	HCl	8240 VOC		3291070A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 Metals		
				125ml	ice	7196 Cr^{6+}		
				1L	ice	Ground water parameters as per work plan		
A1593	Well Water / Sludge Drying Beds	12/09/93 1550	Clear glass	(2) 40ml	HCl	8240 VOC		B3291070A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		
				125ml	ice	7196 Cr^{6+}		
				1L	ice	Ground water Parameters as per work plan		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

MCA 3 15 91

B312154

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 314020
Page 3 of 4

Project Name Tinker 5001

Project No. 409832

Samples Shipment Date 12/09/93

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1594 Dup	well Dup/Sludge water/Drying Beds	12/09/93 1550	Clear glass	(2) 40ml	HCl	8240 VOC	Good, 4°C 12-10-93 RVR	B3291020A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		
				125ml	ice	7196 Cr^{6+}		
				1L	ice	Groundwater parameters as per work plan		
A1595(MS/MSD)	well Water/Sludge Drying Beds	12/09/93 1630	Clear glass	(2) 40ml	HCl	8240 VOC		B3291020A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	415.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrite/Nitrate 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		
				125ml	ice	7196 Cr^{6+}		
				1L	ice	Groundwater parameters as per work plan		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

MCA 3 15 91

B312154

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 314020

Page 4 of 4

Project Name Tinker 5001

Project No. 409832

Samples Shipment Date 12/09/93

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
A1596	Well Water/Sludge Drying Beds	12/09/93 1710	Clear glass ~~40~~ mw	(2) 40ml	HCl	8240 VOC	Good, 4% Rec 12-10-93	B3291020A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		
				125ml	ice	7196 Cr^{6+}		
				1L	ice	Groundwater parameters as per work plan		
A1597	Well Water/Sludge Drying Beds	12/09/93 1730	clear glass	(2) 40ml	HCl	8240 VOC		B3291020A
			Amber glass	2.5L	ice	8270 SVOC		3237062
				1L	H_2SO_4	418.1 TPH		
				500ml		9066 Phenols		
				250ml		410.4 COD 415.1 TOC		
						TKN 351.3 Nitrate/Nitrite 353.2		
			Plastic	500ml	HNO_3	6010/7000 metals		
				125ml	ice	7196 Cr^{6+}		
				1L		Groundwater parameters as per work plan		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

MCA 3 15 91

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1591

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
02B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
02C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	10.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	1.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
02D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1592

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
03B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
03C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	5.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	10.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	5.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/21/93	12/21/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
03D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1593

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
04B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
04C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/10/94	01/10/94	25.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	10.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
04D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1594

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
05B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
05C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	10.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	10.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
05D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1595

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
06C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	20.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	1.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	25.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/28/93	12/28/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
06D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1595-MS

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
07C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	20.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	1.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	25.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/17/93	12/17/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
07D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1595-MSD

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
08C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	20.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	1.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	25.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/17/93	12/17/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
08D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154

Sample ID : A1596

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
09B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
09C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	10.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	10.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
09D						
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : A1597

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
10B						
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
10C	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	10.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	10.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	10.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	10.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/20/93	12/20/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0
10D						
	AS_GF	B312154-11A	121530201	12/19/93	12/19/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0

Auxiliary Data Summary 01/11/94

Work order : B312154 Sample ID : LAB BLANK

FRAC	Tests	Blank Reference	Batch ID	Prep Date	Analysis Date	Dil. Factor
11A	310_1	B312154-11A	1215310_11	12/15/93	12/15/93	1.0
	418_1	B312154-11A	1218TPHIR1	12/18/93	12/27/93	1.0
	9066	B312154-11A	122190661	12/21/93	01/06/94	1.0
	AS_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	CL_IC	B312154-11A	0105CL_ICA	01/05/94	01/05/94	1.0
	COD	B312154-11A	1228COD2B	12/28/93	12/28/93	1.0
	CR_VI	B312154-11A	1210CR_VI2	12/10/93	12/10/93	1.0
	HG_AA	B312154-11A	1216HGAA2	12/16/93	12/16/93	1.0
	NO3NO2	B312154-11A	1214NO3NO2	12/14/93	12/14/93	1.0
	PB_GF	B312154-11A	121530201	12/15/93	12/19/93	1.0
	SIO2	B312154-11A	1229SIO21A	12/29/93	12/29/93	1.0
	SO4_IC	B312154-11A	105SO4_IC1	01/05/94	01/05/94	1.0
	TDS	B312154-11A	1214TDS1	12/14/93	12/14/93	1.0
	TKN_N	B312154-11A	0105TKN_N1	01/05/94	01/07/94	1.0
	TOC	B312154-11A	1220TOC3A	12/21/93	12/21/93	1.0
	TSS	B312154-11A	1214TSS1	12/14/93	12/14/93	1.0
	T_P	B312154-11A	0105T_P1	01/05/94	01/07/94	1.0

TINKER_5001

WORK ORDER # B312154

OF WATER SAMPLES 11

OF SOIL SAMPLES

8240	✓✓	SIO2	✓✓
8270	✓✓	TDS	✓✓
IR	✓✓	TKN_N	✓✓
AS	✓✓	TOC	✓✓
CRIV	✓✓	TSS	✓✓
HG	✓✓	T_P	✓✓
ICP	✓		
PB	✓✓		
SO4_IC	✓✓		
310_1	✓✓		
9066	✓✓		
CL_IC	✓✓		
COD	✓✓		
NO3NO2	✓✓		

Fractions 2-6 + 9+10

APPENDIX A

DEFINITIONS

ND(U)	-	Analyte was analyzed for, but not detected. The value given after the ND or "U" is the detection limit for that compound.
A	-	The compound denoted with an "A" indicates a suspected aldol condensation product.
B	-	Indicates the compound was also detected in the blank, but at levels less than 5X the detection limit. Values for this compound may be suspect.
J	-	Indicates the compound was detected in the sample, but at levels less than the detection limit, but above the MDL. Results should be requarded as estimated.
D	-	Indicates that the compound was identified in an analysis at a secondary dilution factor.
N	-	Indicates presumptive evidence of a compound. This flag is used for tentatively identified compounds.

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

DL - Detection limit

UG/L - Micrograms/Liter

UG/KG - Micrograms/Kilogram

MG/KG - Milligrams/Kilogram

MG/L - Milligrams/Liter

%REC - Percent Recovery

QC Acceptance Limits

Method 8240	Water	Soil
Surrogate % Recoveries		
BFB	86-115	74-121
Dichloroethane	76-114	70-120
Toluene-d8	88-110	81-117
Matrix Spike Limits(%)		
1,1-Dichloroethene	61-145	59-172
Trichloroethene	71-120	62-137
Benzne	76-127	66-142
Toluene	76-125	59-139
Chlorobenzene	75-130	60-133

Method 8270	Water	Soil
Surrogate % Recoveries		
Nitrobenzene-d5	35 - 114	23 - 120
2-Fluorobiphenyl	43 - 116	30 - 115
Terphenyl-d14	33 - 141	18 - 137
Phenol-d5	10 - 94	24 - 113
2-Fluorophenol	21 - 100	25 - 121
2,4,6-Tribromophenol	10 - 123	19 - 122
Matrix Spike Limits(%)		
Phenol	14 - 99	15 - 101
Chlorophenol	19 - 107	20 - 113
1,4-Dichlorobenzene	18 - 101	17 - 102
N-Nitroso-di-propylamine	32 - 108	30 - 113
1,2,4-Trichlorobenzene	24 - 109	21 - 117
4-Chloro-3-methylphenol	31 - 111	34 - 108
Acenaphthene	33 - 110	30 - 110
4-Nitrophenol	1 - 141	d - 138
2,4-Dinitrotoluene	35 - 106	31 - 110
Pentachlorophenol	1 - 147	2 - 145
Pyrene	42 - 119	36 - 126

METALS CONTROL LIMITS

ICP: ± 20% for MS/MSD & Duplicate

GF: Control Charts for MS/MSD; ± 20% for Dup

ICV/CCV

GF ICV ± 20%
GF CCV ± 20%
ICP ICV/CCV ± 10%
HG AA ± 20%

CONTROL LIMITS
GRAPHITE FURNACE/MERCURY

ANALYTE	MATRIX	LIMITS	COMMENTS
Hg	water	21 - 170	Control Charts (B inst.)
Hg	soil	44 - 150	Control Charts (B)
As	water	59 - 150	D
As	soil	75 - 125	D
As	water	52 - 140	C
As	soil	35 - 142	C
Pb	water	48 - 153	D
Pb	soil	75 - 125	D
Pb	water	33 - 163	C
Pb	soil	75 - 125	C
Se	water	37 - 136	D
Se	soil	27 - 118	D
Se	water	20 - 147	C
Se	soil	2.6 - 139	C

B312154

Test Code/Date: 8270 / 12/15/
Set #: _____ Inst. ID: _____

Type	Lab Sample ID	Lab File ID	Performed (Y or N)
Blank	B312154-BL4		
Sample			
MS	B312154-7B	MS016	
MSD	-8B	MSD016	
LCS	LCS		

This QA Spike Lot applies to the following Samples:

#	Client Sample ID	Lab Sample ID	Lab File ID
1		B312154-2B	12/15 s012
2		-3B	
3		-4B	
4		-5B	
5		-6B	
6		-9B	
7		-10B	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Comments: _____

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY AND BLANK SPIKE RECOVERY

103
12/28/93

Lab Name: ITAS - Austin CLIENT ID: QC BATCH ID
Sample Names: DM547 DD548 Prep Code/Date: 3520 | 12/15/93
Date Ran: 12/21/93 12/21/93 Test Code/Date: 8270 | 12/15/93
Time Ran: 2.08 2.36 Set #: 1 Inst.ID:D
Matrix Spike - SAM Sample No. B312154/06 Matrix: WATER
(1000 ML TO 1 ML) 1.0 X DIL

COMPOUND NAME	SPIKE ADDED (ug/L)	SAMPLE CONC (ug/L)	MS CONC (ug/L)	MS % REC #	QC LIMITS REC.	BLANK CONC (ug/L)	BS CONC (ug/L)	BS % REC #	QC LIMITS REC.
PHENOL	100.00	.00	81.27	81	14 - 99	0	.00	0 *	14 - 99
2-CHLOROPHENOL	100.00	.00	86.75	87	19 - 107	0	.00	0 *	19 - 107
1,4-DICHLOROBENZENE	50.00	.00	39.00	78	18 - 101	0	.00	0 *	18 - 101
N-NITROSODI-N-PROPYLAMINE	50.00	.00	35.89	72	32 - 108	0	.00	0 *	32 - 108
1,2,4-TRICHLOROBENZENE	50.00	.00	42.06	84	24 - 109	0	.00	0 *	24 - 109
4-CHLORO-3-METHYLPHENOL	100.00	.00	91.07	91	31 - 111	0	.00	0 *	31 - 111
ACENAPHTHENE	50.00	.00	45.94	92	33 - 110	0	.00	0 *	33 - 110
4-NITROPHENOL	100.00	.00	77.65	78	1 - 141	0	.00	0 *	1 - 141
2,4-DINITROTOLUENE	50.00	.00	38.54	77	35 - 106	0	.00	0 *	35 - 106
PENTACHLOROPHENOL	100.00	.00	110.10	110	1 - 147	0	.00	0 *	1 - 147
PYRENE	50.00	.00	49.73	99	42 - 119	0	.00	0 *	42 - 119

COMPOUND NAME	SPIKE ADDED (ug/L)	MSD CONC. (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	CLP LIMITS SPIKE	CLP LIMITS %RPD
PHENOL	100.00	81.13	81	0	41	14 - 99	12 - 110	42
2-CHLOROPHENOL	100.00	87.68	88	1	45	19 - 107	27 - 123	40
1,4-DICHLOROBENZENE	50.00	39.21	78	1	46	18 - 101	36 - 97	28
N-NITROSODI-N-PROPYLAMINE	50.00	37.06	74	3	46	32 - 108	41 - 116	38
1,2,4-TRICHLOROBENZENE	50.00	44.46	89	6	55	24 - 109	39 - 98	28
4-CHLORO-3-METHYLPHENOL	100.00	95.31	95	5	37	31 - 111	23 - 97	42
ACENAPHTHENE	50.00	47.93	96	4	45	33 - 110	46 - 118	31
4-NITROPHENOL	100.00	81.91	82	5	71	1 - 141	10 - 80	50
2,4-DINITROTOLUENE	50.00	42.00	84	9	43	35 - 106	24 - 96	38
PENTACHLOROPHENOL	100.00	109.45	109	1	143	1 - 147	9 - 103	50
PYRENE	50.00	51.00	102	3	18	42 - 119	26 - 127	51

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.
RPD: 0 out of 11 outside limits.
Spike Recovery: 0 out of 22 outside limits.

SURROGATE RECOVERIES	DM547	DD548		D0902	LIMITS
D5-NITROBENZENE	88	91	0 *	103	35 - 114
2-FLUOROBIPHENYL	83	86	0 *	107	43 - 116
D14-P-TERPHENYL	87	88	0 *	104	33 - 141
D5-PHENOL	79	82	0 *	108	10 - 94
2-FLUOROPHENOL	78	78	0 *	90	21 - 100
2,4,6-TRIBROMOPHENOL	94	97	0 *	131	10 - 123

WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ITAS - Austin CLIENT ID: QC BATCH ID

Sample Names:	DBP54	DBK54	Prep Code/Date:	3520	12/15/93
Date Ran:	12/20/93	12/20/93	Test Code/Date:	8270	12/15/93
Time Ran:	23.16	22.47	Set #:1	Inst.ID:	0

Matrix Spike - SAM Sample No. B312154/BS Matrix: WATER

(1000.00 ML TO 1.00 ML) 1.0 X DIL

COMPOUND NAME	SPIKE ADDED (ug/L)	BLANK CONC (ug/L)	BS CONC (ug/L)	BS % REC #	QC LIMITS REC.	CLP LIMIT SPIKE	%RPD
PHENOL	100.00	.00	73.42	73	14 - 99	12 - 110	42
2-CHLOROPHENOL	100.00	.00	86.09	86	19 - 107	27 - 123	40
1,4-DICHLOROBENZENE	50.00	.00	37.89	76	18 - 101	36 - 97	28
N-NITROSODI-N-PROPYLAMIN	50.00	.00	36.42	73	32 - 108	41 - 116	38
1,2,4-TRICHLOROBENZENE	50.00	.00	42.65	85	24 - 109	39 - 98	28
4-CHLORO-3-METHYLPHENOL	100.00	.00	86.16	86	31 - 111	23 - 97	42
ACENAPHTHENE	50.00	.00	45.95	92	33 - 110	46 - 118	31
4-NITROPHENOL	100.00	.00	75.45	75	1 - 141	10 - 80	50
2,4-DINITROTOLUENE	50.00	.00	40.24	80	35 - 106	24 - 96	38
PENTACHLOROPHENOL	100.00	.00	95.48	95	1 - 147	9 - 103	50
PYRENE	50.00	.00	46.22	92	42 - 119	26 - 127	51

BS 12/28/93

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

Spike Recovery: 0 out of 11 outside limits.

SURROGATE RECOVERIES	DBP54	DBK54	LIMITS
D5-NITROBENZENE	86	88	35 - 114
2-FLUOROBIPHENYL	86	86	43 - 116
D14-P-TERPHENYL	86	84	33 - 141
D5-PHENOL	78	40	10 - 94
2-FLUOROPHENOL	74	51	21 - 100
2,4,6-TRIBROMOPHENOL	88	90	10 - 123

✓

ITAS_Austin Volatiles QA Spike Lot Summary LOT#: _____

Date/Time: 12/16/93

Operator: MBP

GC Column: RTX 502.2

Intrument: GC/MS A1

Test/Matrix: 8240 / Water

Operator: MBP

Type	Lab Sample ID	Lab File ID	Performed (Y or N)
Sample	B312154-02	7AT542	Y
MS	-02 MS	7AM542	
MSD	-02 MSD	7AD542	
LCS	-BS	7ABS16	

This QA Spike Lot applies to the following Samples:

#	Client * Sample ID	Lab Sample ID	Lab File ID
01	Finker	B312154-01	
02		-02	
03		-03	
04		-04	
05		-05	
06		-06	
07		-09	
08		-10	
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Comments: _____

* - Field used only if necessary.

QC Batch ID

Prep Code/Date: ____/____

Test Code/Date: ~~12/16~~ 8240 / 12/16/93

Set #: 1 Inst. ID: A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY AND BLANK SPIKE RECOVERY

Lab Name: ITAS - Austin Date Ran: 12/16/93 QC BATCH ID

Sample Names:)AM542)AD542)ABS16 Prep Code/Date: |

CLIENT ID: Test Code/Date: 8240 | 12/16/93

Matrix Spike - SAM Sample No. B312154/02 Matrix: WATER Set #: Inst.ID: A1

(5.000 ML TO 5 ML) 1.0 X DIL

COMPOUND NAME	SPIKE ADDED (ug/L)	SAMPLE CONC (ug/L)	MS CONC (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	.00	45.46	91	61 - 145
Trichloroethene	50.00	.00	44.82	90	71 - 120
Benzene	50.00	.00	46.08	92	76 - 127
Toluene	50.00	.00	49.16	98	76 - 125
Chlorobenzene	50.00	.00	50.20	100	75 - 130

BLANK CONC (ug/L)	BS CONC (ug/L)	BS % REC #	QC LIMITS REC.
0	52.27	105	61 - 145
0	41.83	84	71 - 120
0	49.09	98	76 - 127
0	48.15	96	76 - 125
0	48.86	99	75 - 130

COMPOUND NAME	SPIKE ADDED (ug/L)	MSD CONC. (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.00	43.68	87	4	14	61 - 145
Trichloroethene	50.00	42.98	86	4	14	71 - 120
Benzene	50.00	44.82	90	3	11	76 - 127
Toluene	50.00	47.72	95	3	13	76 - 125
Chlorobenzene	50.00	49.51	99	1	13	75 - 130

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 5 outside limits.

Spike Recovery: 0 out of 10 outside limits.

(12/17) (12/17) (12/16)
18:17 18:43 22:35

(12/16)
21:41
>ALC16 ⇒ all neg

SURROGATE RECOVERIES

	)AM542	)AD542	)ABS16	LIMITS
Toluene - d8	107	107	98	88 - 110
Bromofluorobenzene	99	99	99	86 - 115
1,2-Dichloroethane - d4	99	96	103	76 - 114

96
99
108

FORM III VOA-2

QC BATCH ID FOR ICPES	
PREPREP METHOD:	NA
PREP METHOD:	Z3005
ANALYSIS METHOD:	6010
BATCH DATE:	12-16-93
INSTRUMENT ID:	B-
SET (BATCH) #:	2

Work Orders/Fractions Associated With Batch

ICPTK4

Lab Sample ID's	
1)	B312154-020
2)	-030
3)	-040
4)	-050
5)	-060
6)	-090
7)	-100
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

Batch QC Samples	
LCS ID:	LCS05 121693-1
LCSD ID:	LCSD05121693-1
MB ID:	PBN05121693-1
MS ID:	B312154-070 MS
MSD ID:	B312154-080MSD
REP ID:	

ANALYTES REQUIRED FOR BATCH:

Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na
X	X	—	—	X	X	X	X	—	X	X	X	X	X	X	—	X

Ni	Pb	Sb	Se	Si	Sn	Ti	Tl	V	Zn
X	—	—	X	—	—	—	—	—	X

ITAS Austin QC Batch Summary for ICP

QC Batch ID	
eprep Method:	
Prep Method:	3005
Analysis Method:	6010
Batch Date:	12/16/93
Instrument ID:	B
Batch (Set) #:	2

Batch QC Information		
Matrix: WATER	Data Reported to PQL	
Units: MG/L		
		Corr. Fact.
Method Blk ID:	PB05121693-1	1
LCS ID:	LCS05121693-1	1
LCSD ID:	LCSD05121693-1	1
MS Sample ID:	B312154-07D	1
MSD Sample ID:	B312154-08D	1
Rep Sample ID:		0

	Replicate Sample Data				Blank / LCS Batch QC									
Analyte	Original Result for Replicate	Replicate Result	% RPD	Q	Method Blank Result	LCS true Value (mg/L	LCS Conc. Found	LCS % Rec.	Q	LCSD Conc. Found	LCSD % Rec.	Q	% RPD for LCS/LCSD Recoveries	Q
Ag	ND				< 0.010	1	0.9617	96		0.97	97		0.95	
Al	ND				< 0.20	10	10.2	102		10.22	102		0.20	
As					< 0.10	1	1.046	105		1.06	106		1.61	
B					< 0.20	1	0.9738	97		0.99	99		1.77	
Ba	1.385				< 0.20	1	0.9872	99		0.99	99		0.14	
Be	ND				< 0.0050	1	0.9767	98		0.99	99		0.89	
Ca	65.72				< 5.0	20	20.79	104		21.00	105		1.01	
Cd	ND				< 0.0050	1	0.9664	97		0.98	98		1.13	
Co					< 0.050	1	0.9388	94		0.95	95		1.25	
Cr	ND				< 0.010	1	0.9905	99		1.00	100		0.52	
Cu	ND				< 0.025	1	0.9395	94		0.94	94		0.37	
Fe	0.6202				< 0.10	10	10.62	106		10.51	105		1.04	
K	ND				< 5.0	20	19.47	97		20.03	100		2.84	
Mg	35.58				< 5.0	20	20.23	101		20.32	102		0.44	
Mn	0.6339				< 0.015	1	0.9468	95		0.95	95		0.60	
Mo					< 0.10	1	0.9549	95		0.97	97		1.20	
Na	47.72				< 5.0	20	20.14	101		20.15	101		0.05	
Ni	ND				< 0.040	1	0.946	95		0.95	95		0.87	
Pb					< 0.050	1	0.9492	95		0.96	96		0.90	
Sb					< 0.060	1	1.015	101		1.00	100		1.39	
Se	ND				< 0.10	1	1.001	100		1.03	103		2.86	
Si					< 1.0	10	11.26	113		11.12	111		1.25	
Sn					< 0.10	1	0.9343	93		1.00	100		7.09	
Ti					< 0.10	1	0.9903	99		0.99	99		0.33	
Tl					< 0.20	1	1.055	106		1.03	103		2.20	
V					< 0.050	1	0.9608	96		0.97	97		0.76	
Zn	ND				< 0.020	1	0.9605	96		0.96	96		0.12	

QC Data Reviewed By: [illegible] Date/Time: 1/05/94 16:00

Comments:

ualifiers:
N - LCS % Recovery was outside method limits of 80-120 %.
R - % RPD for LCS/LCSD was outside control limit of 20 %.
* Replicate RPD was outside method control limit of 20 %

ITAS Austin QC Batch Summary for ICP

QC Batch ID	
eprep Method:	
Prep Method:	3005
Analysis Method:	6010
Batch Date:	12/16/93
Instrument ID:	B
Batch (Set) #:	2

Batch QC Information		
Matrix: WATER		Data Reported to PQL
Units: MG/L		
		Corr. Factor
Method Blk ID:	PB05121693-1	1
LCS ID:	LCS05121693-1	1
LCSD ID:	LCSD05121693-1	1
MS Sample ID:	B312154-07D	1
MSD Sample ID:	B312154-08D	1
Rep Sample ID:		

Spike Sample Data

Analyte	Original Result for MS/MSD	MS Result	MS Spike Added	MS % Rec.	Q	MSD Result	MSD Spike Added	MSD % Rec.	Q	% RPD for MS/MSD Recoveries	Q	% RPD for MS/MSD Result As Replicates	Q
Ag	ND	0.7103	1.00	71	N	0.7723	1.00	77	N	8.36			
Al	ND	7.854	10.00	79	N	8.675	10.00	87		9.93			
As													
B													
Ba	1.385	2.25	1.00	87		2.502	1.00	112		25.43	R		
Be	ND	0.7321	1.00	73	N	0.7927	1.00	79	N	7.95			
Ca	65.72	76.15	20.00	52	N	85	20.00	96		59.58	R		
Cd	ND	0.7028	1.00	70	N	0.7587	1.00	76	N	7.65			
Co													
Cr	ND	0.7159	1.00	72	N	0.7764	1.00	78	N	8.11			
Cu	ND	0.6915	1.00	69	N	0.7578	1.00	76	N	9.15			
Fe	0.6202	8.084	10.00	75	N	8.852	10.00	82		9.79			
K	ND	15.35	20.00	77	N	17.01	20.00	85		10.26			
Mg	35.58	48.55	20.00	65	N	54.05	20.00	92		34.99	R		
Mn	0.6339	1.277	1.00	64	N	1.408	1.00	77	N	18.49			
Mo													
Na	47.72	60.4	20.00	63	N	67.15	20.00	97		42.04	R		
Ni	ND	0.6841	1.00	68	N	0.736	1.00	74	N	7.31			
Pb													
Sb													
Se	ND	0.7239	1.00	72	N	0.7355	1.00	74	N	1.59			
Si													
Sn													
Ti													
Tl													
V													
Zn	ND	0.7035	1.00	70	N	0.7639	1.00	76	N	8.23			

Comments: ncm filed for all N's

Qualifiers (Q):

H - Sample concentration was greater than five times the spike level.
N - Spike recovery was outside method control limits of 80-120 %.
R - Percent RPD for MS/MSD recoveries was outside method control limit of 20 %.
D - Sample concentration was greater than five times the spike level.
The RPD was calculated between the MS and MSD results as replicates.

12/27

D312154

QC Batch ID

ITAS - AUSTIN EXTRACTABLES QA LOT SUMMARY:

Prep Code/Date: T-w-tf / 12/14/93
Test Code/Date: _____ / _____
Set #: _____ Inst. ID: _____

Type	Lab Sample ID	Result	Percent Recovery	QC limits
Blank	B312154-B1	ND	<	< Reporting limit
Blank spike	B5	5.7	102	70 to 130%
MS	B16	11	95	70 to 130%
MSD	08A	12	100	70 to 130%

This QA Spike Lot applies to the following Samples:

#	Client	Sam # + Fraction	Date of Prep
1	Tinker	B312154-06B	12/16/93
2		B312154-02B	12/18/93
3		03B	
4		04B	
5		05B	
6		09B	
7		10B	
8		B312169-02B	
9		03B	
10		04B	
11		05B	
12		06B	
13			
14			
15			
16			
17			
18			
19			
20			

Comments: _____

QC BATCH ID FOR WET CHEM - Test Code: NO3 NO2	
PREPREP METHOD:	—
PREP METHOD:	—
ANALYSIS METHOD:	353.2
BATCH DATE:	12-14-93
INSTRUMENT ID:	A
SET (BATCH) #:	1

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1	B312154-02C
2	-03C
3	-04C
4	-05C
5	-06C
6	-09C
7	-10C
8	B312143-01C
9	-02C
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC ID's

LCS ID:	LCS121493-1	
LCSD ID:	LCSD121493-1	
MB ID:	MB121493-1	
MS ID:	B312154-07C	MSD of 06C
MSD ID:	-08C	MSD of 06C
REP ID:	B312154-10C	DUP

Batch QC Results

MDL: — PQL: 0.050

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	<0.050	mg/L	DSB	12/14/93 16:29
LCS % Rec	105	% Rec		
LCSD % Rec	101	% Rec		
LCS/LCSD RPD	3.88	% RPD		
MS % Rec	101	% Rec		
MSD % Rec	96.4	% Rec		
MS/MSD RPD	4.66	% RPD		
REP RPD	1.68	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: CR_VI

PREPREP METHOD:	
PREP METHOD:	
ANALYSIS METHOD:	CR_VI
BATCH DATE:	12/10/93
INSTRUMENT ID:	1
SET (BATCH) #:	2

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	03C
3	04C
4	05C
5	06C
6	09C
7	10C
8	
9	
10	
11	
12	
13	SAT
14	
15	10/15
16	
17	
18	
19	
20	

Batch QC ID's	
LCS ID:	LCS 121093-2
LCSD ID:	LCSD 121093-2
MB ID:	MB B312154
MS ID:	B312154-07C
MSD ID:	B312154-08C
REP ID:	B312154-10C

Batch QC Results MDL: _____ PQL: 0.010

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0	mg/L	SAT	12/10/93 12:00
LCS % Rec	102	% Rec		
LCSD % Rec	94.0	% Rec		
LCS/LCSD RPD	8.16	% RPD		
MS % Rec	92.0	% Rec		
MSD % Rec	94.0	% Rec		
MS/MSD RPD	2.14	% RPD		
REP RPD	0	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: SO4-IC	
PREPREP METHOD:	
PREP METHOD:	
ANALYSIS METHOD:	SO4-IC
BATCH DATE:	1/5/94
INSTRUMENT ID:	A
SET (BATCH) #:	1A

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1 B312154-02C
2 -03C
3 -04C
4 -05C
5 -06C
6 -09C
7 -10C
8
9
10
11
12
13
14
15
16
17
18
19
20

Batch QC ID's

LCS ID: 010594-1
LCSD ID: 010594-2
MB ID: 010594-1
MS ID: B312154-07C
MSD ID: B312154-08C
REP ID: B312169-04C

Batch QC Results

MDL: _____ PQL: 10 mg/L

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0.0	mg/L	RBB	1/5/94 7:39
LCS % Rec	107	% Rec		
LCSD % Rec	104	% Rec		
LCS/LCSD RPD	2.84	% RPD		
MS % Rec	82.0	% Rec		
MSD % Rec	84.5	% Rec		
MS/MSD RPD	2.92	% RPD		
REP RPD	12.1	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: Ce_IC	
PREPREP METHOD:	
PREP METHOD:	
ANALYSIS METHOD:	Ce_IC
BATCH DATE:	1/5/94
INSTRUMENT ID:	A
SET (BATCH) #:	1A

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	-03C
3	-04C
4	-05C
5	-06C
6	-09C
7	-10C
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC ID's	
LCS ID:	010594-1
LCSD ID:	010594-2
MB ID:	010594-1
MS ID:	B312154-07C
MSD ID:	B312154-08C
REP ID:	B312169-04C

Batch QC Results

MDL: _____ PQL: 1.0 mg/L

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0.0	mg/L	RBS	01/05/94 7:39
LCS % Rec	109	% Rec	✓	✓
LCSD % Rec	104	% Rec	✓	✓
LCS/LCSD RPD	4.69	% RPD	✓	✓
MS % Rec	108	% Rec	✓	✓
MSD % Rec	115	% Rec	✓	✓
MS/MSD RPD	6.28	% RPD	✓	✓
REP RPD	5.64	% RPD	✓	✓

Comments:

QC BATCH ID FOR WET CHEM - Test Code: T-P	
PREPREP METHOD:	—
PREP METHOD:	—
ANALYSIS METHOD:	365.4 TKP
BATCH DATE:	1-~~7~~ 5-94 osb 1/10/94
INSTRUMENT ID:	A
SET (BATCH) #:	1

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1	B312154-02C
2	-03C
3	-04C
4	-05C
5	-06C
6	-09C
7	-10C
8	B312151-02C
9	-03C
10	-04C
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC ID's

LCS ID:	LCS010594-1
LCSD ID:	NA
MB ID:	PBW010594-1
MS ID:	B312154-07C MS of 06C
MSD ID:	-07C MSD of 06C
REP ID:	ICV/ICVDUP

Batch QC Results

MDL: — PQL: 0.10

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	<0.10	mg/L	OSB	1/7/94 14:15
LCS % Rec	104	% Rec		
LCSD % Rec	NA	% Rec		
LCS/LCSD RPD	NA	% RPD		
MS % Rec	100	% Rec		
MSD % Rec	98	% Rec		
MS/MSD RPD	2.0	% RPD		
REP RPD	3.7	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: TKN	
PREPREP METHOD:	—
PREP METHOD:	—
ANALYSIS METHOD:	351.2
BATCH DATE:	1-5-94
INSTRUMENT ID:	A
SET (BATCH) #:	1

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1	3312154-02C
2	-03C
3	-04C
4	-05C
5	-06C
6	-09C
7	-10C
8	3312143-01C
9	-02C
10	B312151-02C
11	-03C
12	-04C
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC ID's

LCS ID:	LCS010594-1
LCSD ID:	NA
MB ID:	PBW 010594-1
MS ID:	3312154-07C MS of 06
MSD ID:	-08C MSD of 06
REP ID:	ICU/ICUDUP

Batch QC Results

MDL: _____ PQL: _____

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	<0.25	mg/L	DSB	1/7/94 12:08
LCS % Rec	99	% Rec		
LCSD % Rec	—	% Rec		
LCS/LCSD RPD	—	% RPD		
MS % Rec	93.8	% Rec		
MSD % Rec	94.6	% Rec		
MS/MSD RPD	0.85	% RPD		
REP RPD	0.92	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: ALK-I	
PREPREP METHOD:	NA
PREP METHOD:	NA
ANALYSIS METHOD:	ALK-10
BATCH DATE:	12-15-93
INSTRUMENT ID:	A
SET (BATCH) #:	1

Work Orders/Fractions Associated With Batch

Lab Sample ID's	Batch QC ID's
1 B312169 02C→06C	LCS ID: 121593-1
2 B312151 02C→09C	LCSD ID: 121593-2
3 ~~B312145~~	MB ID: NA
4 ~~B312147 01C~~ 20A	MS ID: NA
5 B312154 02C→10C	MSD ID: NA
6 B312147-09C, 20A	REP ID: B312169, B312151, B312154, ~~B312147~~ 20A
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC Results MDL: _____ PQL: 10

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0		JAM	12-15-93
LCS % Rec	100	% Rec		
LCSD % Rec	100	% Rec		
LCS/LCSD RPD	NA	% RPD		
MS % Rec		% Rec		
MSD % Rec		% Rec		
MS/MSD RPD		% RPD		
REP RPD	1.24	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: SiO_2	
PREPREP METHOD:	
PREP METHOD:	
ANALYSIS METHOD:	SiO_2
BATCH DATE:	12/29/93
INSTRUMENT ID:	A
SET (BATCH) #:	1A

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1	B312154-02C
2	-03C
3	-04C
4	-05C
5	-06C
6	-09C
7	-10C
8	
9	
10	
11	
12	
13	
14	
15	SAT
16	12/29
17	
18	
19	
20	

Batch QC ID's

LCS ID:	LCS122993-1
LCSD ID:	LCSD 122993-1
MB ID:	MB 122993-1
MS ID:	B312154-07C
MSD ID:	B312154-08C
REP ID:	B312154-10C

Batch QC Results

MDL: _____ PQL: 0.20 %

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0	mg/L	SAT	12/29/93
LCS % Rec	90.0	% Rec		
LCSD % Rec	96.0	% Rec		
LCS/LCSD RPD	6.45	% RPD		
MS % Rec	101	% Rec		
MSD % Rec	103	% Rec		
MS/MSD RPD	1.96	% RPD		
REP RPD	1.28	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: TOC

PREPREP METHOD:
PREP METHOD:
ANALYSIS METHOD: TOC
BATCH DATE: 12/20/93
INSTRUMENT ID: A
SET (BATCH) #: 3A

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
*2	03C
3	04C
4	05C
5	06C
6	09C
7	10C
8	
9	
10	
11	
12	
13	
14	
15	SAT
16	12/20
17	
18	
19	
20	

Batch QC ID's

LCS ID: LCS122093-3
LCSD ID: LCSD122093-3
MB ID: MB 122093-3
MS ID: B312154-07C
MSD ID: B312154-08C
REP ID: LCSD122093-3

Batch QC Results

MDL: _____ PQL: 1.0 mg/L

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0	mg/L	SAT	12/20 16:00
LCS % Rec	108	% Rec		
LCSD % Rec	108	% Rec		
LCS/LCSD RPD	0	% RPD		
MS % Rec	108	% Rec		
MSD % Rec	105	% Rec		
MS/MSD RPD	2.82	% RPD		
REP RPD	0	% RPD		

Comments: *LCS rerun 12/21 Set 2
B312154-03C - ND
LCS 111% Rec
LCSD 108% Rec
2.74% RPD

44-8-85

QC BATCH ID FOR WET CHEM - Test Code: TDS

PREPREP METHOD:
PREP METHOD:
ANALYSIS METHOD: TDS
BATCH DATE: 12/14/93
INSTRUMENT ID: A
SET (BATCH) #: 1

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	03C
3	04C
4	05C
5	06C
6	09C
7	10C
8	B312151-02C
9	09C
10	04C
11	05C
12	06C
13	
14	
15	
16	SAT 12/20
17	
18	
19	
20	

Batch QC ID's

LCS ID: LCS 121493-1
LCSD ID: LCSD 121493-1
MB ID: NA
MS ID: NA
MSD ID: NA
REP ID: B312154 07C, 08C
B312151 07C, 08C

Batch QC Results

MDL: _____ PQL: 10 mg/L

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	NA	mg/L	JAM	12/14 9:30
LCS % Rec	100	% Rec		
LCSD % Rec	101	% Rec		
LCS/LCSD RPD	0.995	% RPD		
MS % Rec	NA	% Rec		
MSD % Rec	NA	% Rec		
MS/MSD RPD	NA	% RPD		
REP RPD	254 ~~.995~~ .758/[illegible] 251 5.05/4.72	% RPD		

Comments:

44-8-85

QC BATCH ID FOR WET CHEM - Test Code: COD
PREPREP METHOD:
PREP METHOD:
ANALYSIS METHOD: COD
BATCH DATE: 12/28/93
INSTRUMENT ID: D
SET (BATCH) #: 1

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	D3C
3	D4C
4	D5C
5	D6C
6	~~MS D7C~~ SAT
7	~~D8C~~ SAT
8	D9C
9	10C
10	~~DUP 10C~~ SAT
11	
12	
13	
14	
15	
16	SAT
17	
18	
19	
20	

Batch QC ID's

LCS ID: LCS 122893-1
LCSD ID: LCSD 122893-1
MB ID: MB 122893-1
MS ID: B312154-07C
MSD ID: B312154-08C
REP ID: B312154-10C

Batch QC Results

MDL: _____ PQL: 25 mg/L

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0	mg/L	SAT	12/28
LCS % Rec	106	% Rec		
LCSD % Rec	98.4	% Rec		
LCS/LCSD RPD	7.44	% RPD		
MS % Rec	91.2	% Rec		
MSD % Rec	86.4	% Rec		
MS/MSD RPD	5.41	% RPD		
REP RPD	0	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: TSS

PREPREP METHOD:
PREP METHOD:
ANALYSIS METHOD: TSS
BATCH DATE: 12/14/93
INSTRUMENT ID: A
SET (BATCH) #: 1

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	03C
3	04C
4	05C
5	06C
6	(DUP OF 6C) 07C
7	(DUP OF 6C) 08C
8	- 09C
9	10C
10	B312151-02C
11	09C
12	03C
13	04C
14	05C
15	06C
16	DUP OF (6C) -07C
17	(DUP OF 7C) -08C
18	
19	SAP
20	12/22

Batch QC ID's

LCS ID: LCS121493-1
LCSD ID: LCSD121493-1
MB ID: NA
MS ID:
MSD ID:
REP ID: B312154-07C, 08C *
B312151-07C, 08C

Batch QC Results MDL: PQL: 10

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	NA	mg/L	JAM	12/14 9:00
LCS % Rec	88.3	% Rec		
LCSD % Rec	93.1	% Rec		
LCS/LCSD RPD	5.29	% RPD		
MS % Rec	NA	% Rec		
MSD % Rec		% Rec		
MS/MSD RPD		% RPD		
REP RPD		% RPD		

10.0/4.88

Comments: *Were rerun 12/17
B312154 ~~+6~~ SAT 07C - 16 mg/L
08C 14 mg/L
LCS/LCSD RPD 14.0
LCS 115% Rec
LCSD 100% Rec

44-8-85

QC BATCH ID FOR GFAA/CVAA - Test Code: AS_GF	
PREPREP METHOD:	
PREP METHOD:	Z3020
ANALYSIS METHOD:	7060
BATCH DATE:	12/15/93
INSTRUMENT ID:	D
SET (BATCH) #:	2

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1 B311333-02B
2 B312154-02D
3 03D
4 04D
5 05D
6 06D
7 07D
8 08D
9 09D
10 10D
11
12
13
14
15
16
17
18
19
20

Batch QC ID's

LCS ID: LCS20 121593-2
LCSD ID: LCSD20 121593-2
MB ID: PB20 121593-2
MS ID: B312154-07D MS
MSD ID: B312154-08D MSD
REP ID: B312154-06D DUP

Batch QC Results

MDL: 0.010 PQL: 0.010

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	<0.010	MG/L	KMB	12/19/93 12:15
LCS % Rec	96.3	% Rec		
LCSD % Rec	91.5	% Rec		
LCS/LCSD RPD	5.11	% RPD		
MS % Rec	108	% Rec		
MSD % Rec	105	% Rec		
MS/MSD RPD	2.82	% RPD		
REP RPD	1.28	% RPD		

Comments: Analytical Spike = 106%

QC BATCH ID FOR GFAA/CVAA - Test Code: PB_GF	
PREPREP METHOD:	
PREP METHOD:	3020
ANALYSIS METHOD:	7421
BATCH DATE:	12/15/93
INSTRUMENT ID:	C
SET (BATCH) #:	2

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1 B311333-02B
2 B312154-02D
3 03D
4 04D
5 05D
6 06D
7 07D
8 08D
9 09D
10 10D
11
12
13
14
15
16
17
18
19
20

Batch QC ID's

LCS ID: LCS20 121593-2
LCSD ID: LCSD20 121593-2
MB ID: PB20 121593-2
MS ID: B312154-07D MS
MSD ID: B312154-08D MSD
REP ID: B312154-06D DUP

Batch QC Results

MDL: 0.0030 PQL: 0.00

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	<0.0030	MG/L	KMB	12/19/93 11:51
LCS % Rec	104	% Rec		
LCSD % Rec	105	% Rec		
LCS/LCSD RPD	0.957	% RPD		
MS % Rec	117	% Rec		
MSD % Rec	115	% Rec		
MS/MSD RPD	1.72	% RPD		
REP RPD	0.0	% RPD		

Comments: Analytical Spike = 110 %

Hg-MS 12/16/93 MLA

QC BATCH ID FOR GFAA/CVAA - Test Code: _____	
PREPREP METHOD:	1311
PREP METHOD:	
ANALYSIS METHOD:	7470
BATCH DATE:	12/16/93
INSTRUMENT ID:	A
SET (BATCH) #:	1 (2)

Work Orders/Fractions Associated With Batch

Lab Sample ID's

1	B312145-01C
2	DUP 01C
3	B312064-03B
4	B312154-02D
5	03D
6	04D
7	05D
8	06D
9	07D
10	08D
11	09D
12	10D
13	
14	
15	
16	MLA 12/16
17	
18	
19	
20	

Batch QC ID's

LCS ID:	ICV 121693-1	
LCSD ID:	CCV-1	
MB ID:	ICB	
MS ID:	B312154-07D	MS
MSD ID:	08D	MSD
REP ID:	06D	DUP

Batch QC Results

MDL: 0.020 PQL: 0.020

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	0.0	mg/L	MLA	12/16/93 22:00
LCS % Rec	96.5	% Rec		
LCSD % Rec	102	% Rec		
LCS/LCSD RPD	5.54	% RPD		
MS % Rec	109	% Rec		
MSD % Rec	111	% Rec		
MS/MSD RPD	1.82	% RPD		
REP RPD	0	% RPD		

Comments:

QC BATCH ID FOR WET CHEM - Test Code: 9066	
PREPREP METHOD:	
PREP METHOD:	
ANALYSIS METHOD:	9066
BATCH DATE:	12-21-93
INSTRUMENT ID:	A
SET (BATCH) #:	1

Work Orders/Fractions Associated With Batch

Lab Sample ID's	
1	B312154-02C
2	03C
3	04C
4	05C
5	06C
6	09C
7	10C
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Batch QC ID's	
LCS ID:	LCS 122193-1
LCSD ID:	LCSD 122793-1
MB ID:	MB 122193-1
MS ID:	B312154-07C
MSD ID:	B312154-08C
REP ID:	B312154-10C

Batch QC Results

MDL: _____ PQL: 0.010

Sample ID	Result	Units	Analyst	Date/Time
Method Blk	ND	mg/L	[illegible]	1-6-94 17:02
LCS % Rec	93	% Rec		
LCSD % Rec	100	% Rec		
LCS/LCSD RPD	7.2	% RPD		
MS % Rec	78	% Rec		
MSD % Rec	88	% Rec		
MS/MSD RPD	12	% RPD		
REP RPD	0	% RPD		

Comments:

APPENDIX E
SITE SURVEY REPORT

Phone: (405) 843-4847
WATS: (800) 654-3219
FAX: (405) 843-0975

TOPOGRAPHIC
LAND SURVEYORS
OF OKLAHOMA

Surveying and Mapping for Oklahoma's Energy Industry

6709 N. Classen Blvd. Oklahoma City, Oklahoma 73116

International Technology Corporation
Attn.: Joe Pacelli
312 Directors Drive
Knoxville, Tn 37923
Reference: IT Subcontract No. **547295**
IDO-5001
Bid 93116
(*Survey Contract*)
4.4 Documentation of Surveying Activities

Survey Contractor:

Topographic Land Surveyors of Oklahoma
6709 N. Classen Blvd.
Oklahoma City, Oklahoma 73116
Edward D. (Deral) Paulk, PLS
President
Harry McClintick, PLS
Party Chief
(405) 843-4847

Instrumentation:

Work done was completed with a Topcon/Sokkisha Model C3E. Last calibration by the factory was done 10/10/1993 and was checked daily by standard survey methods to determine that the tolerance was within factory limits. The unique serial number for the instrument is # 153047. The data collector was a Hewlett-Packard 48SX using the TDS Survey card.

Methods:

Standard mil-spec survey methods were employed during the survey and included.
Double sets of repetitive angles, both in horizontal and vertical.
Distance in Meters and Feet for double redundancy.

Control Points:

All control points used were set by the Corps of Engineers and the coordinates were supplied to us in NAD-83 Meters, Oklahoma North Zone (3501) based upon the Lambert projection. Typical numbers were;

BM SE (secondary control points)
BM PR (Primary control points)

These points were established by Trimble 4000SE GPS receivers and are capable of obtaining accuracy in the centimeter range. During our survey we confirmed this accuracy and due to the nature of GPS usage, we did not balance our traverse of the monumentation. See explanation beginning on page three, this document.

Tabulation of Vertical and Horizontal Coordinates:

In sheet form broken into per site information in three formats.
NAD-83 Meters
NAD-27 Feet
NAD-83 Feet

Field Notes, Calculations and Reduction Techniques:

All field work was performed using Total Station and no reduction was necessary. Grid and Sea level factors used in the calculations are attached as part of this report. No paper field notes were kept, except diagrams explaining shot points. These are included as drawings and are part of the digital information supplied.
Actual closure of each particular site is disclosed within this document beginning on page 4.

This survey is true and accurate based upon monumentation supplied by Tinker Air Force Base.

Edward D. Paulk, PLS #1279
Topographic Land Surveyors of Oklahoma
6709 N. Classen Blvd.
Oklahoma City, Oklahoma 73116

REGISTERED LAND SURVEYOR
Edward Deral Paulk, Jr.
L. S. 1279
OKLAHOMA

USAGE OF GPS MONUMENTATION

Qualifications:
We are a Trimble Navigation dealer for the Midwest and have had crews surveying using GPS for over two years. Edward D. Paulk, has attended training and seminars continually to maintain a level of experience and technical knowledge of GPS that exceeds specs of GPS surveys.

During the course of our preliminary survey, we had closures that exceeded specs and we were forced to continue surveys back to our point of beginning to check our accuracy. We continually proved our surveys by closures exceeding 1 in 10,000, but we could not achieve this using the provided GPS monumentation and closing on a third monument.

We contacted the base mapping department and learned that the monuments were set using 4000SE receivers (GPS) by the Corps of Engineers. The 4000SE is capable of accuracy on any point of +/- 1-3 Centimeters. After this determination, we were well within specs of their given coordinates.

Their survey closure was probably quite good given the distances that they monumented, however when you use relatively close monuments as our survey dictated and very few traverse points, the error looks poor. Had we shot a mile away, then back to add some footage to our survey, the closure would have been much better. Since this technique is only used to comply with a pure mathematical closure, not a better survey, and would not actually improve positional accuracy, we did not do this.

Site by Site Report

File HM-A
HCL Tank
4 Soil Borings
IT Drawing #409832 Fig. 5.5
Horizontal and Vertical Control was establish for (4) four Soil Borings.
BM SE-33, SE-05 and PR-07 were used for control.

Upon first completion of traverse, we closed on PR-07 with 3.041' of error, but our vertical was with 0.05'. We made a closure back to SE-05 and closed within 0.4'. This site had the only apparent large discrepancy in their control. Since SE-33 and SE-05 agreed within limits we used these to determine closure.

Horizontal Accuracy 1 in 10,000
Vertical Accuracy 1 in 95,800

File HM-B
SPILL POND
2 Soil Borings
IT Drawing #409832 Fig. 5.6
Horizontal and Vertical Control was establish for (2) Soil Borings.
BM SE-33, SE-37 and SE-42 were used for control.

Horizontal Accuracy 1 in 5902
Vertical Accuracy 1 in 12,000

We closed back upon our first monument horizontally 1 in 25,000 as a check.

File HM-C
Sludge Drying Beds and Old Pesticide Area
13 Soil Borings
6 Monitor Wells
7 SG Points
IT Drawing # 409832 Fig. 5.3 and 5.7
Horizontal and Vertical Control was established for (13) Soil Borings, (6) Six Monitor wells and (7) SG Points.
BM SE-41, SE-45 and SE-47 were used for control.
Horizontal Accuracy 1 in 8725
Vertical Accuracy 1 in 390,000

We closed back upon BM SE-45 as a check and closed 1 in 14,000 Horizontally.

FileHM-D
Fuel Truck
(8) Soil Borings
(3) Monitor Wells
(3) SG Points
IT Drawing #409832 Fig. 5.4
Horizontal and Vertical Control was established for (8) Soil Borings, (3) Monitor wells and (3) SG Points.
BM PR-02, SE-16 and PR-03 were used for control.

Horizontal Accuracy 1 in 22,586
Vertical Accuracy 1 in 20,000

File HM-E
Ordnance Disposal Area
(5) Soil Borings
(4) Corners of area as per staked and Dan McGregor's instructions.
IT Drawing #409832 Fig. 5.1
Horizontal and Vertical Control was established for (5) Soil Borings, (4) Corners of area.
BM SE-19, PR-02 and SE-016 were used for control.

Horizontal Accuracy 1 in 10,000
Vertical Accuracy 1 in 20,000

File HM-F
Fire Training Area 2
(8) Monitor Wells
IT Drawing #409832 Fig. 5.8
Horizontal and Vertical Control was established for (8) Monitor Wells.
BM SE-37, SE-33 and BM32 were used for control.

Horizontal Accuracy 1 in 34,800
Vertical Accuracy 1 in 95,000

File HM-G
AFFF Fire Control Pond
(4) Soil Borings
IT Drawing #409832 Fig. 5.2
Horizontal and Vertical Control was established for (4) Soil Borings.
BM SE-31, SE-22 and PR-01 were used for control.

Horizontal Accuracy 1 in 6500
Vertical Accuracy 1 in 58,000

Shots Typical

Soil Borings- One X,Y,Z placed center of drill hole, typically on top of concrete fill-in area.
(36) Total Soil Borings

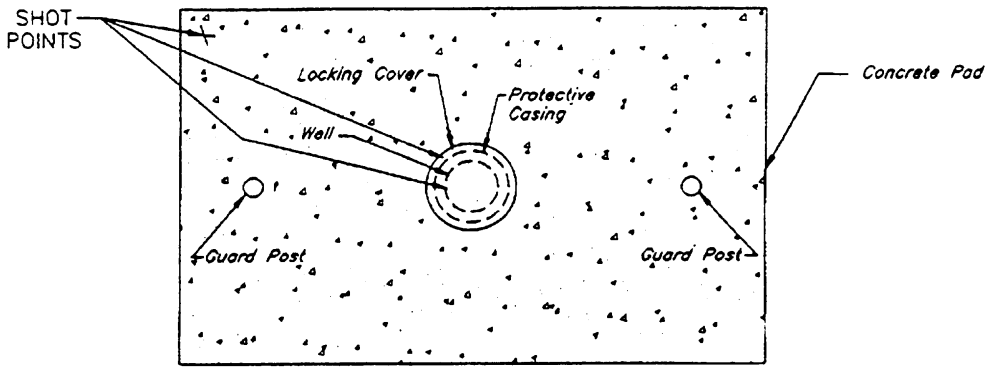
Monitor Well- (*Flush mount*) Three X,Y,Z,s were placed upon each well.
1: NW Corner of concrete pad.
2: Top of retaining casing, where well number was stamped into a milled area.
3: Top of well, under seal, (X,Y determined for center, and Z determined at north lip of well.

(*Tower Mount*) Three X,Y,Z,s were placed upon each well.
1: NW Corner of concrete pad.
2: Top of square guard, center
3: Screw cap removed, X and Y in Center and Z on the North lip of well.
(17) Total Monitoring wells. 51 points.

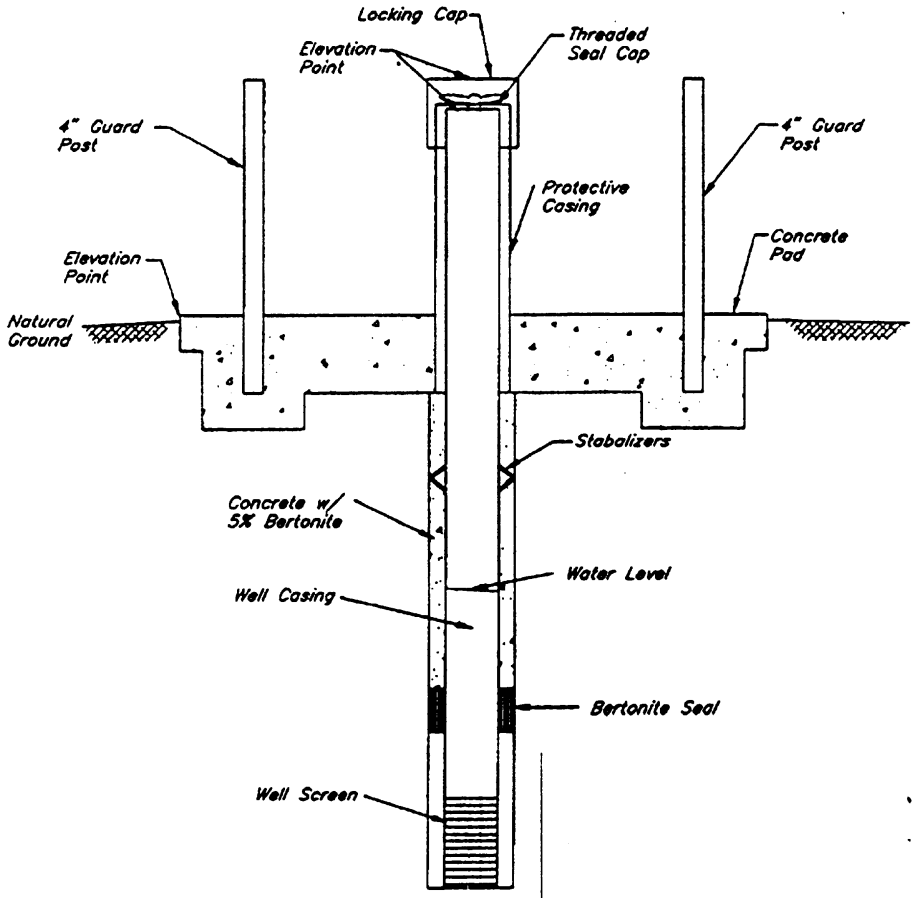
In addition; we determined X,Y and Z for a number of SG points. These were determined at center of dig point.

In addition; we determined X,Y and Z for four corners of an area in the **Ordnance Disposal area** as per Dan McGregor's instructions. These points were stakes set by previous contractor.

Included in this report are two drawings showing typical well layouts.
Drawing Flush.Dwg
Tower.Dwg



TOP VIEW



SIDE VIEW

NO.	REVISION	DATE	BY

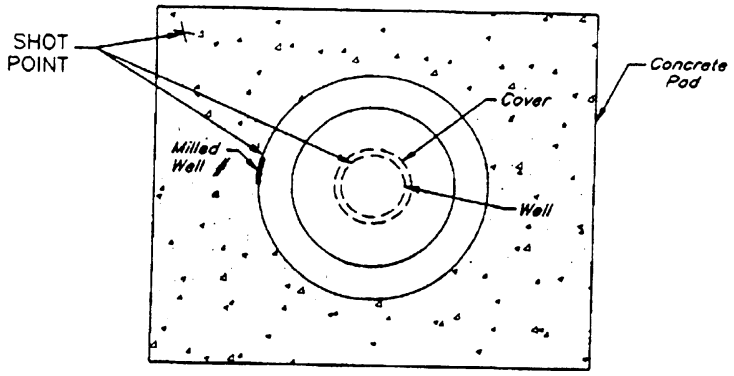
TYPICAL STICK-UP MONITORING WELLS

TOPOGRAPHIC LAND SURVEYORS
OKLAHOMA CITY, OKLAHOMA

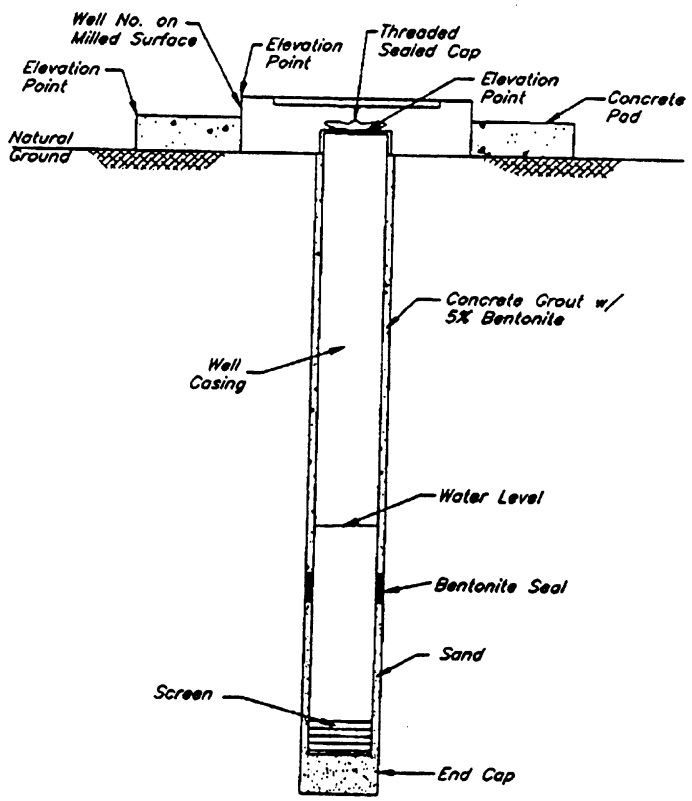
DATE: 1-19-94

DRAWING: STICK-UP.DWG

SHEET OF



TOP VIEW



SIDE VIEW

NO.	REVISION	DATE	BY

TYPICAL FLUSH MOUNT MONITORING WELLS

TOPOGRAPHIC LAND SURVEYORS
OKLAHOMA CITY, OKLAHOMA

DATE: 1-18-94

DRAWING: FLUSH DWG

SHEET OF

Tinker AFB		**Factors**	
		Factors.txt	
Calculations for Grid Distance			
Formula Used	1-(1250)/(20,906,000)	0.9999402086	Elevation Factor
Elevation average is 1250			
Grid Factor from USGS Tables			
Average Latitude is 35-25		1.0000306000	Grid Factor
Combination Factor is multiple of these		0.9999708067	Combo Factor

Diskette Files

Disk Labeled *IDO-5001*
#547295
Text Files and Final Reports

FILE NAME	DESCRIPTION
Report.WPS	Microsoft Works file of final report
Report.TXT	ASCII file of final report.
Finals.WB1	Quattro Pro for Windows data base All areas, control and Factors NAD-83, NAD-27
Finals.WK3	1-2-3 V.3.x database All areas, control and Factors
Hcl.TXT	ASCII of HCL Area
Spill.TXT	ASCII of Spill Pond
Sludge.TXT	ASCII of Sludge and Pesticide
Fuel.TXT	ASCII of Fuel Truck
Ordance.TXT	ASCII of Ordnance area
Fire.TXT	ASCII of Fire Training
FireC.TXT	ASCII of Fire Control
NAD83.TXT	ASCII of X,Y,Z and Description
NAD27.TXT	ASCII of X,Y,Z and Description
Control.TXT	ASCII of X,Y,Z and Description of control monuments.
Factor.TXT	ASCII of grid/elevation factors used in calculations.

Nad 83 Datum

Format given was in meters

State Plane Lambert Coordinate System

Conversion used was

Oklahoma North Zone

Meters X 3.280833337

Values in Feet

Nad 1927

Control Coordinates from GPS

	GPS Marker	Meters	Feet	Meters Northing	Meters Easting	[redacted]	[redacted]	Feet Northing	Feet Easting
Fire Training Center	SE24	385.017	1,263.19	45950.816	655952.839	[redacted]	2158071.943	150730.564	2183669.404
	SE28	377.2[illegible]	1,239.53	45604.798	655531.584	[redacted]	2156699.074	149595.353	2182287.332
	SE32	378.442	1,243.59	45431.969	655045.990	[redacted]	2149098.721	149028.353	2180694.179
	SE43	379.071	1,245.39	46303.717	654817.311	[redacted]	2148346.452	151888.413	2179943.944
Bldg 1030 Spill Pond	SE37	377.952	1,240.00	45788.902	654625.746	[redacted]	2147717.970	150199.400	2179315.440
	SE42	374.6[illegible]	1,229.29	46296.627	654526.676	[redacted]	2147392.938	151865.163	2178990.423
Bldg 978-AFFF	SE22	394.245	1,267.30	44861.607	655589.130	[redacted]	2150878.873	147157.075	2182476.110
	SE31	389.977	1,273.22	44877.485	654833.045	[redacted]	2148398.085	147209.198	2179995.530
	PR01	392.774	1,288.46	44381.814	655603.420	[redacted]	2150925.555	145582.958	2182522.978
Sludge Drying Beds	SE45	374.749	1,229.69	46693.176	654086.696	[redacted]	2145949.437	153186.188	2177546.973
	SE47	372.444	1,222.80	47117.173	654049.981	[redacted]	2146828.993	154557.245	2177426.496
	SE41	371.392	1,219.10	46360.622	653942.053	[redacted]	2145674.998	152075.142	2177072.383
HCL Tank	SE05	387.194	1,270.65	46999.293	656307.763	[redacted]	2153296.387	154170.415	2184833.870
	SE08	395.8[illegible]	1,298.84	46012.200	656807.677	[redacted]	2154970.523	150931.917	2186473.977
	PR07	387.441	1,271.13	47640.475	656374.729	[redacted]	2153456.002	156274.017	2185053.591
Ordinance Disposal	SE16	385.476	1,264.13	44935.219	656910.278	[redacted]	2155213.140	147398.529	2186810.565
	PR02	397.412	1,303.34	44519.766	656757.523	[redacted]	2154711.978	146035.506	2186309.389
	SE15	394.393	1,293.22	44874.549	656322.201	[redacted]	2153283.757	147199.504	2184881.187
Fuel Truck Maint.	SE10	391.834	1,285.81	45464.255	656655.015	[redacted]	2154375.662	149134.216	2185973.103
	PR03	398.292	1,306.73	45229.480	657014.725	[redacted]	2155555.911	148363.946	2187153.241
Others	SE03	386.877	1,269.28	47481.646	656307.338	[redacted]	2153234.994	155752.933	2184832.489
	SE19	386.425	1,267.80	44134.062	656649.276	[redacted]	2154356.837	144770.084	2185954.242
	SE33	384.161	1,260.37	45572.014	654847.132	[redacted]	2148444.301	149487.824	2180041.762
	SE38	384.312	1,260.86	45560.105	653975.745	[redacted]	2145585.425	149448.783	2177182.896
	[redacted]	382.527	1,255.01	45726.546	654009.317	[redacted]	2145695.571	149994.849	2177293.048

Tinker AFB							
Calculations for Grid Distance							
Formula Used		1-(1250)/(20,906,000)			0.9999402086		Elevation Factor
Elevation average is 1250							
Grid Factor from USGS Tables							
Average Latitude is 35-25					1.0000306000		Grid Factor
Combination Factor is multiple of these					0.9999708067		Combo Factor

Topographic	HM-A File	HCL Tank									
	NAD-83 Feet				NAD-83 Meters				NAD-27		
Description	Northing	Easting	Elevation		Northing	Easting	Elevation		Northing	Easting	Elevation
SB-045	153284.190	2153636.064	1275.110		46721.114	656,429.578	388.654		153257.757	2,185,233.520	1275.110
SB-044	153838.492	2153621.494	1275.980		46890.066	656,425.137	388.919		153812.059	2,185,218.954	1275.980
SB-042	154150.008	2153620.517	1276.230		46985.016	656,424.839	388.996		154123.573	2,185,217.979	1276.230
SB-043	154445.476	2153604.478	1275.830		47075.075	656,419.950	388.874		154419.041	2,185,201.941	1275.830
					Conversion Factor				NAD-27 Derived with		
					Meters X 3.28083337				Corpscon Program		
					3.28083337						

Topographic	HM-B File	Spill Pond								
	NAD-83 Feet			NAD-83 Meters				NAD-27		
Description	Northing	Easting	Elevation	Northing	Easting	Elevation		Northing	Easting	Elevation
SB-019	150763.571	2148028.472	1227.435	45952.828	654,720.380	374.123		150737.212	2,179,625.925	1227.435
SB-020	150782.180	2148011.904	1226.202	45958.500	654,715.330	373.747		150755.821	2,179,609.357	1226.202
				Conversion Factor				NAD-27 Derived with		
				Meters X 3.28083337				Corpscon Program		
				3.28083337						

Topographic	HM-C	Sludge and Pesticide		Conversion	3.28083337				
	NAD-83 Feet			NAD-83 Meters			NAD-27		
Description	Northing	Easting	Elevation	Northing	Easting	Elevation	Northing	Easting	Elevation
SB-029	153312.251	2145687.276	1226.929	46729.667	654006.782	373.969	153285.911	2177284.758	1226.929
SB-030	153346.842	2145683.882	1225.960	46740.210	654005.748	373.673	153320.501	2177281.365	1225.960
SB-031	153365.289	2145684.283	1226.145	46745.833	654005.870	373.730	153338.949	2177281.766	1226.145
SB-032	153366.845	2145704.893	1226.026	46746.307	654012.152	373.693	153340.504	2177302.376	1226.026
SB-033	153369.982	2145725.373	1226.205	46747.263	654018.394	373.748	153343.640	2177322.855	1226.205
SB-034	153367.428	2145750.652	1225.884	46746.485	654026.099	373.650	153341.088	2177348.133	1225.884
NWCorPad	153327.504	2145660.862	1227.987	46734.316	653998.731	374.291	153301.164	2177258.344	1227.987
BrassTag	153325.646	2145662.395	1228.252	46733.750	653999.199	374.372	153299.307	2177259.879	1228.252
MW2-67A	153325.656	2145662.944	1227.880	46733.753	653999.366	374.259	153299.317	2177260.427	1227.880
NWCorPad	153334.792	2145660.365	1227.942	46736.538	653998.580	374.277	153308.454	2177257.848	1227.942
BrassTag	153332.586	2145662.743	1228.136	46735.865	653999.305	374.337	153306.246	2177260.227	1228.136
MW2-67B	153333.109	2145662.460	1227.749	46736.025	653999.218	374.219	153306.771	2177259.941	1227.749
SG-021	153294.259	2145661.494	1227.875	46724.183	653998.924	374.257	153267.920	2177258.977	1227.875
SG-027	153504.913	2145656.153	1227.450	46788.391	653997.296	374.128	153478.575	2177253.637	1227.450
NWCorPad	153485.156	2145668.540	1227.773	46782.369	654001.072	374.226	153458.818	2177266.025	1227.773
BrassTag	153482.661	2145670.729	1227.992	46781.608	654001.739	374.293	153456.321	2177268.214	1227.992
MW2-68A	153483.317	2145670.331	1227.639	46781.808	654001.618	374.185	153456.977	2177267.817	1227.639
NWCorPad	153498.329	2145667.974	1227.737	46786.384	654000.899	374.215	153471.990	2177265.458	1227.737
BrassTag	153497.345	2145669.894	1227.801	46786.084	654001.484	374.234	153471.006	2177267.377	1227.801
MW2-68B	153496.783	2145670.021	1227.501	46785.913	654001.523	374.143	153470.445	2177267.505	1227.501
SB-035	153513.044	2145686.160	1225.832	46790.869	654006.442	373.634	153486.704	2177283.644	1225.832
SB-041	153461.953	2145572.501	1226.184	46775.296	653971.799	373.742	153435.613	2177169.986	1226.184
SG-045	153403.851	2145548.281	1227.352	46757.587	653964.417	374.098	153377.514	2177145.766	1227.352
SG-043	153478.151	2145547.779	1227.388	46780.233	653964.264	374.109	153451.811	2177145.265	1227.388
SB-039	153436.514	2145600.936	1225.186	46767.542	653980.466	373.437	153410.174	2177198.420	1225.186
SB-040	153422.287	2145576.593	1225.367	46763.206	653973.046	373.493	153395.948	2177174.077	1225.367
SB-036	153520.297	2145709.088	1225.408	46793.080	654013.431	373.505	153493.958	2177306.573	1225.408
SB-037	153515.849	2145723.059	1225.822	46791.724	654017.689	373.631	153489.509	2177320.543	1225.822
SB-038	153515.734	2145749.026	1225.397	46791.689	654025.604	373.502	153489.394	2177346.511	1225.397
SG-030	153587.989	2145651.621	1228.246	46813.712	653995.915	374.370	153561.649	2177249.107	1228.246
SG-034	153561.346	2145780.604	1228.528	46805.591	654035.229	374.456	153535.004	2177378.089	1228.528
SG-035	153529.622	2145780.692	1228.755	46795.922	654035.256	374.525	153503.281	2177378.177	1228.755
NWCorPad	153503.822	2145892.455	1228.566	46788.058	654069.321	374.468	153477.479	2177489.938	1228.566
BrassTag	153501.522	2145894.847	1228.786	46787.357	654070.050	374.535	153475.180	2177492.330	1228.786
MW2-66B	153501.835	2145894.243	1228.424	46787.452	654069.866	374.424	153475.491	2177491.726	1228.424
NWCorPad	153512.675	2145892.637	1228.458	46790.756	654069.377	374.435	153486.331	2177490.122	1228.458
BrassTag	153511.424	2145894.290	1228.601	46790.375	654069.880	374.478	153485.081	2177491.772	1228.601
MW2-66A	153510.700	2145894.300	1228.209	46790.154	654069.883	374.359	153484.356	2177491.782	1228.209

Topographic	HM-D	Fuel Truck		NAD-83 Meters			NAD-27		
	NAD-83 Feet								
Description	Northing	Easting	Elevation	Northing	Easting	Elevation	Northing	Easting	Elevation
NWCorPad	148775.507	2155282.108	1295.444	45346.865	656931.293	394.852	148749.069	2186879.522	1295.444
TopCap	148773.603	2155283.795	1298.011	45346.284	656931.807	395.635	148747.163	2186881.208	1298.011
MW2-59	148773.597	2155283.829	1297.780	45346.283	656931.818	395.564	148747.160	2186881.244	1297.780
NWCorPad	148680.914	2155133.601	1295.503	45318.033	656886.028	394.870	148654.478	2186731.015	1295.503
TopCap	148679.362	2155135.280	1297.910	45317.560	656886.540	395.604	148652.926	2186732.695	1297.910
MW2-61	148679.399	2155135.301	1297.669	45317.571	656886.546	395.530	148652.962	2186732.714	1297.669
SG-011	148684.532	2155080.720	1293.606	45319.135	656869.910	394.292	148658.094	2186678.134	1293.606
SG-007	148683.636	2155169.969	1294.398	45318.862	656897.113	394.533	148657.198	2186767.383	1294.398
SB-028	148708.492	2155153.422	1295.649	45326.439	656892.069	394.915	148682.056	2186750.834	1295.649
SB-026	148715.397	2155133.878	1295.280	45328.543	656886.112	394.802	148688.959	2186731.291	1295.280
SB-025	148744.572	2155125.634	1295.337	45337.436	656883.600	394.820	148718.136	2186723.049	1295.337
SB-024	148770.840	2155121.237	1295.452	45345.442	656882.259	394.855	148744.402	2186718.650	1295.452
SB-023	148773.567	2155152.471	1295.640	45346.273	656891.780	394.912	148747.128	2186749.887	1295.640
SG-003	148792.311	2155168.857	1295.340	45351.987	656896.774	394.820	148765.875	2186766.271	1295.340
SB-021	148790.269	2155106.589	1295.427	45351.364	656877.795	394.847	148763.632	2186704.005	1295.427
SB-022	148767.379	2155095.618	1295.804	45344.387	656874.451	394.962	148740.941	2186693.033	1295.804
SB-027	148708.128	2155095.209	1295.822	45326.328	656874.326	394.967	148681.693	2186692.623	1295.822
NWCorPad	148744.809	2155092.856	1295.791	45337.508	656873.609	394.958	148718.373	2186690.271	1295.791
Brasstag	148743.943	2155093.661	1295.890	45337.244	656873.854	394.988	148717.506	2186691.074	1295.890
MW2-60	148743.299	2155093.599	1295.587	45337.048	656873.835	394.896	148716.863	2186691.012	1295.587
		Conversion	3.28083337						
		Factor							

Topographic

Topographic	HM-E File	Ordnance		NAD-83 Meters			NAD-27		
	NAD-83 Feet								
Description	Northing	Easting	Elevation	Northing	Easting	Elevation	Northing	Easting	Elevation
SB-014	146445.086	2154383.435	1311.061	44636.551	656657.377	399.612	146418.665	2185980.834	1311.061
SB-013	146413.073	2154355.429	1310.171	44626.793	656648.841	399.341	146386.651	2185952.828	1310.171
SB-011	146447.893	2154329.998	1310.433	44637.407	656641.089	399.421	146421.474	2185927.396	1310.433
SB-012	146465.811	2154321.959	1310.473	44642.868	656638.639	399.433	146439.390	2185919.358	1310.473
SB-010	146542.271	2154343.810	1311.318	44666.173	656645.299	399.691	146515.850	2185941.209	1311.318
NWCorSite	146721.400	2154322.520	1309.813	44720.772	656638.810	399.232	146694.980	2185919.921	1309.813
SWCorSite	146451.388	2154188.076	1308.511	44638.472	656597.831	398.835	146424.969	2185785.474	1308.511
SECorSite	146305.859	2154478.943	1308.422	44594.115	656686.488	398.808	146279.439	2186076.341	1308.422
NECorSite	146573.205	2154611.871	1306.203	44675.602	656727.004	398.131	146546.781	2186209.268	1306.203
		Conversion Factor	3.28083337						

Topographic	HM-F	Fire Training		NAD-83 Meters			NAD-27		
	NAD-83 Feet								
Description	Northing	Easting	Elevation	Northing	Easting	Elevation	Northing	Easting	Elevation
NWCorPad	150499.212	2150362.314	1246.117	45872.251	655431.737	379.817	150472.826	2181959.759	1246.117
Brasstag	150496.710	2150361.243	1246.334	45871.488	655431.410	379.883	150470.323	2181958.686	1246.334
MW2-64A	150496.592	2150361.920	1246.052	45871.452	655431.617	379.797	150470.205	2181959.365	1246.052
NWCorPad	150496.378	2150370.497	1245.748	45871.387	655434.231	379.705	150469.991	2181967.941	1245.748
BrassTag	150494.048	2150369.766	1245.897	45870.677	655434.008	379.750	150467.662	2181967.209	1245.897
MW2-64B	150493.787	2150370.314	1245.586	45870.598	655434.175	379.655	150467.403	2181967.757	1245.586
NWCORPAD	150413.765	2150435.848	1243.361	45846.207	655454.150	378.977	150387.380	2182033.291	1243.361
BRASSTAG	150412.971	2150437.446	1243.561	45845.965	655454.637	379.038	150386.585	2182034.889	1243.561
MW2-63B	150412.498	2150437.914	1243.284	45845.821	655454.780	378.954	150386.113	2182035.358	1243.284
NWCORPAD	150417.479	2150443.373	1243.630	45847.339	655456.444	379.059	150391.093	2182040.817	1243.630
BRASSTAG	150416.999	2150445.608	1243.790	45847.192	655457.125	379.108	150390.611	2182043.052	1243.790
MW2-63A	150416.351	2150445.576	1243.387	45846.995	655457.115	378.985	150389.964	2182043.019	1243.387
NWCORPAD	150472.247	2150540.674	1246.052	45864.032	655486.101	379.797	150445.859	2182138.117	1246.052
BRASSTAG	150471.088	2150542.460	1246.266	45863.679	655486.645	379.863	150444.701	2182139.902	1246.266
MW2-62B	150470.906	2150543.115	1245.940	45863.623	655486.845	379.763	150444.517	2182140.558	1245.940
NWCORPAD	150475.671	2150552.586	1246.409	45865.076	655489.732	379.906	150449.284	2182150.03	1246.409
BRASSTAG	150474.251	2150554.084	1246.531	45864.643	655490.188	379.943	150447.863	2182151.526	1246.531
MW2-62A	150474.276	2150554.721	1246.213	45864.651	655490.383	379.846	150447.890	2182152.166	1246.213
NWCORPAD	150726.091	2150590.145	1251.120	45941.404	655501.180	381.342	150699.702	2182187.591	1251.120
BRASSTAG	150724.666	2150593.078	1251.270	45940.970	655502.074	381.388	150698.278	2182190.524	1251.270
MW2-65A	150724.671	2150592.440	1250.976	45940.971	655501.879	381.298	150698.281	2182189.884	1250.976
NWCORPAD	150740.546	2150583.419	1250.939	45945.810	655499.130	381.287	150714.157	2182180.865	1250.939
BRASSTAG	150739.181	2150585.126	1251.089	45945.394	655499.650	381.333	150712.792	2182182.571	1251.089
MW2-65B	150739.263	2150585.757	1250.812	45945.419	655499.842	381.248	150712.875	2182183.201	1250.812
		Conversion Factor	3.28083337						

Topographic	HMA-G File	Fire Control								
	NAD-83 Feet			NAD-83 Meters				NAD-27		
Description	Northing	Easting	Elevation	Northing	Easting	Elevation		Northing	Easting	Elevation
SB-018	147211.133	2150886.702	1268.631	44870.043	655,591.571	386.679		147184.752	2,182,484.119	1268.631
SB-017	147032.432	2150889.734	1270.361	44815.574	655,592.495	387.207		147006.049	2,182,487.149	1270.361
SB-016	146809.976	2150890.028	1273.784	44747.770	655,592.584	388.250		146783.596	2,182,487.440	1273.784
SB-015	146611.995	2150890.336	1275.957	44687.425	655,592.678	388.912		146585.615	2,182,487.746	1275.957
				Conversion Factor				NAD-27 Derived		
				Meters X 3.28083337				Corpscon Prog		
				3.28083337						

Coordinates in NAD 27 (Feet)			
SB-045	153257.757	2185233.520	1275.110
SB-044	153812.059	2185218.954	1275.980
SB-042	154123.573	2185217.979	1276.230
SB-043	154419.041	2185201.941	1275.830
SB-019	150737.212	2179625.925	1227.435
SB-020	150755.821	2179609.357	1226.202
SB-029	153285.911	2177284.758	1226.929
SB-030	153320.501	2177281.365	1225.960
SB-031	153338.949	2177281.766	1226.145
SB-032	153340.504	2177302.376	1226.026
SB-033	153343.640	2177322.855	1226.205
SB-034	153341.088	2177348.133	1225.884
NWCorPad	153301.164	2177258.344	1227.987
BrassTag	153299.307	2177259.879	1228.252
MW2-67A	153299.317	2177260.427	1227.880
NWCorPad	153308.454	2177257.848	1227.942
BrassTag	153306.246	2177260.227	1228.136
MW2-67B	153306.771	2177259.941	1227.749
SG-021	153267.920	2177258.977	1227.875
SG-027	153478.575	2177253.637	1227.450
NWCorPad	153458.818	2177266.025	1227.773
BrassTag	153456.321	2177268.214	1227.992
MW2-68A	153456.977	2177267.817	1227.639
NWCorPad	153471.990	2177265.458	1227.737
BrassTag	153471.006	2177267.377	1227.801
MW2-68B	153470.445	2177267.505	1227.501
SB-035	153486.704	2177283.644	1225.832
SB-041	153435.613	2177169.986	1226.184
SG-045	153377.514	2177145.766	1227.352
SG-043	153451.811	2177145.265	1227.388
SB-039	153410.174	2177198.420	1225.186
SB-040	153395.948	2177174.077	1225.367
SB-036	153493.958	2177306.573	1225.408
SB-037	153489.509	2177320.543	1225.822
SB-038	153489.394	2177346.511	1225.397
SG-030	153561.649	2177249.107	1228.246
SG-034	153535.004	2177378.089	1228.528
SG-035	153503.281	2177378.177	1228.755
NWCorPad	153477.479	2177489.938	1228.566
BrassTag	153475.180	2177492.330	1228.786
MW2-66B	153475.491	2177491.726	1228.424
NWCorPad	153486.331	2177490.122	1228.458
BrassTag	153485.081	2177491.772	1228.601
MW2-66A	153484.356	2177491.782	1228.209
NWCorPad	148749.069	2186879.522	1295.444
TopCap	148747.163	2186881.208	1298.011
MW2-59	148747.160	2186881.244	1297.780
NWCorPad	148654.478	2186731.015	1295.503
TopCap	148652.926	2186732.695	1297.910
MW2-61	148652.962	2186732.714	1297.669
SG-011	148658.094	2186678.134	1293.606
SG-007	148657.198	2186767.383	1294.398
SB-028	148682.056	2186750.834	1295.649
SB-026	148688.959	2186731.291	1295.280
SB-025	148718.136	2186723.049	1295.337
SB-024	148744.402	2186718.650	1295.452
SB-023	148747.128	2186749.887	1295.640
SG-003	148765.875	2186766.271	1295.340
SB-021	148763.832	2186704.005	1295.427
SB-022	148740.941	2186693.033	1295.804
SB-027	148681.693	2186692.623	1295.822
NWCorPad	148718.373	2186690.271	1295.791
Brasstag	148717.506	2186691.074	1295.890
MW2-60	148716.863	2186691.012	1295.587
SB-014	146418.665	2185980.834	1311.061
SB-013	146386.651	2185952.828	1310.171
SB-011	146421.474	2185927.396	1310.433
SB-012	146439.390	2185919.358	1310.473
SB-010	146515.850	2185941.209	1311.318
NWCorSite	146894.980	2185919.921	1309.813
SWCorSite	146424.969	2185785.474	1308.511
SECorSite	146279.439	2186076.341	1308.422
NECorSite	146546.781	2186209.268	1306.203
NWCorPad	150472.826	2181959.759	1246.117

Brasstag	150470.323	2181958.686	1246.334
MW2-64A	150470.205	2181959.365	1246.052
NWCorPad	150469.991	2181967.941	1245.748
BrassTag	150467.662	2181967.209	1245.897
MW2-64B	150467.403	2181967.757	1245.586
NWCORPAD	150387.380	2182033.291	1243.361
BRASSTAG	150386.585	2182034.889	1243.561
MW2-63B	150386.113	2182035.358	1243.284
NWCORPAD	150391.093	2182040.817	1243.630
BRASSTAG	150390.611	2182043.052	1243.790
MW2-63A	150389.964	2182043.019	1243.387
NWCORPAD	150445.859	2182138.117	1246.052
BRASSTAG	150444.701	2182139.902	1246.266
MW2-62B	150444.517	2182140.558	1245.940
NWCORPAD	150449.284	2182150.03	1246.409
BRASSTAG	150447.863	2182151.526	1246.531
MW2-62A	150447.890	2182152.166	1246.213
NWCORPAD	150699.702	2182187.591	1251.120
BRASSTAG	150698.278	2182190.524	1251.270
MW2-65A	150698.281	2182189.884	1250.976
NWCORPAD	150714.157	2182180.865	1250.939
BRASSTAG	150712.792	2182182.571	1251.089
MW2-65B	150712.875	2182183.201	1250.812
SB-018	147184.752	2,182,484.119	1268.631
SB-017	147006.049	2,182,487.149	1270.361
SB-016	146783.596	2,182,487.440	1273.784
SB-015	146585.615	2,182,487.746	1275.957

NRO-27

Coordinates in NAD 83 (Meters)

46721.114	656429.578	388.654	SB-045
46890.066	656425.137	388.919	SB-044
46985.016	656424.839	388.996	SB-042
47075.075	656419.950	388.874	SB-043
45952.828	654720.380	374.123	SB-019
45958.500	654715.330	373.747	SB-020
46729.667	654006.782	373.969	SB-029
46740.210	654005.748	373.673	SB-030
46745.833	654005.870	373.730	SB-031
46746.307	654012.152	373.693	SB-032
46747.263	654018.394	373.748	SB-033
46746.485	654026.099	373.650	SB-034
46734.318	653998.731	374.291	NWCorPad
46733.750	653999.199	374.372	BrassTag
46733.753	653999.366	374.259	MW2-67A
46736.538	653998.580	374.277	NWCorPad
46735.865	653999.305	374.337	BrassTag
46736.025	653999.218	374.219	MW2-67B
46724.183	653998.924	374.257	SG-021
46788.391	653997.296	374.128	SG-027
46782.369	654001.072	374.226	NWCorPad
46781.608	654001.739	374.293	BrassTag
46781.808	654001.618	374.185	MW2-68A
46786.384	654000.899	374.215	NWCorPad
46786.084	654001.484	374.234	BrassTag
46788.913	654001.523	374.143	MW2-68B
46790.869	654006.442	373.634	SB-035
46775.296	653971.799	373.742	SB-041
46767.587	653964.417	374.098	SG-045
46780.233	653964.264	374.109	SG-043
46767.542	653980.466	373.437	SB-039
46763.206	653973.046	373.493	SB-040
46793.080	654013.431	373.505	SB-036
46791.724	654017.689	373.631	SB-037
46791.689	654025.604	373.602	SB-038
46813.712	653995.915	374.370	SG-030
46805.591	654035.229	374.456	SG-034
46795.922	654035.256	374.525	SG-035
46785.058	654069.321	374.468	NWCorPad
46787.357	654070.050	374.535	BrassTag
46787.452	654069.866	374.424	MW2-66B
46790.756	654069.377	374.435	NWCorPad
46790.375	654069.880	374.478	BrassTag
46790.154	654069.883	374.359	MW2-66A
45346.865	656931.293	394.852	NWCorPad
45346.284	656931.807	395.635	TopCap
45346.283	656931.818	395.564	MW2-59
45318.033	656886.028	394.870	NWCorPad
45317.560	656886.540	395.604	TopCap
45317.571	656886.546	395.530	MW2-61
45319.135	656869.910	394.292	SG-011
45318.862	656897.113	394.533	SG-007
45328.439	656892.069	394.915	SB-028
45328.543	656886.112	394.802	SB-026
45337.436	656883.600	394.820	SB-025
45345.442	656882.259	394.855	SB-024
45346.273	656891.780	394.912	SB-023
45351.987	656896.774	394.820	SG-003
45351.364	656877.795	394.847	SB-021
45344.387	656874.451	394.962	SB-022
45328.328	656874.326	394.967	SB-027
45337.508	656873.609	394.958	NWCorPad
45337.244	656873.854	394.988	Brasstag
45337.048	656873.835	394.896	MW2-60
44838.561	656857.377	399.612	SB-014
44826.793	656648.841	399.341	SB-013
44637.407	656641.089	399.421	SB-011
44642.868	656638.639	399.433	SB-012
44666.173	656645.299	399.691	SB-010
44720.772	656638.810	399.232	NWCorSite
44638.472	656597.831	398.835	SWCorSite
44594.116	656686.488	398.808	SECorSite
44676.602	656727.004	398.131	NECorSite
45872.251	655431.737	379.817	NWCorPad

45871.488	655431.410	379.883	Brasstag
45871.452	655431.617	379.797	MW2-64A
45871.387	655434.231	379.705	NWCorPad
45870.677	655434.008	379.750	BrassTag
45870.598	655434.175	379.655	MW2-64B
45846.207	655454.150	378.977	NWCORPAD
45845.965	655454.637	379.038	BRASSTAG
45845.821	655454.780	378.954	MW2-63B
45847.339	655456.444	379.059	NWCORPAD
45847.192	655457.125	379.108	BRASSTAG
45846.995	655457.115	378.985	MW2-63A
45864.032	655486.101	379.797	NWCORPAD
45863.679	655486.645	379.863	BRASSTAG
45863.623	655486.845	379.763	MW2-62B
45865.076	655489.732	379.906	NWCORPAD
45864.643	655490.188	379.943	BRASSTAG
45864.651	655490.383	379.846	MW2-62A
45941.404	655501.180	381.342	NWCORPAD
45940.970	655502.074	381.388	BRASSTAG
45940.971	655501.879	381.298	MW2-65A
45945.810	655499.130	381.287	NWCORPAD
45945.394	655499.650	381.333	BRASSTAG
45945.419	655499.842	381.248	MW2-65B
44870.043	655591.571	386.679	SB-018
44816.574	655592.495	387.207	SB-017
44747.770	655592.584	388.250	SB-016
44687.425	655592.678	388.912	SB-015

NAD-83

END

APPENDIX F
GEOTECHNICAL, CERTIFICATES OF ANALYSIS, CHAIN-OF-CUSTODY

INTERNATIONAL TECHNOLOGY CORPORATION

GEOTECHNICAL LABORATORY

409802
409832

CERTIFICATE OF ANALYSIS

Karmen Deane
IT Corporation
5307 Industrial Oaks Blvd.
Suite 160
Austin, TX 78735

March 16, 1994

ETDC Project Number: 483500.094.02 P.O. Number: 4627-341
Job Number: 4I4627

This is the Certificate of Analysis for the following samples:

Client Project ID:	**Tinker AFB**
Date Received by Lab:	**November 10, 1993**
Number of Samples:	**Two (2)**
Sample Type:	**Soil**

I. Introduction/Case Narrative

Two (2) soil samples were received by IT/ETDC on (November 11, 1993) for analyses of grain size distribution, cation exchange capacity, moisture content and permeability. Not all samples required all parameters.

Please see Appendix A, the Sample Number Cross Reference List; Appendix B, the Analysis Results; Appendix C, the Chain of Custody and Request for Analysis Records.

Reviewed and Approved:

Beverly L. Leamon
Project Manager, Geotechnical Services

IT Environmental Technology Development Center
P.O. Box 4339 • 1570 Bear Creek Road • Oak Ridge, TN 37830 • 615-482-6497 • FAX: 615-482-1890

681A-6-93

Karmen Deane
IT Corporation
March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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II. Analytical Results/Methodology

REFERENCES: Annual Book of ASTM Standards, Section 4, Construction, Volume 04.08, Soil and Rock; Dimension Stone; Geosynthetics. Volume 4.02, Concrete and Aggregates.

Grain Size Distribution	**ASTM D422**
Cation Exchange Capacity	**EPA, Method 9081**
Moisture Content	**ASTM D 2216**
Permeability	**ASTM D 5084**

III. Quality Control

Except for cation exchange capacity analysis, quality control checks such as duplicates and spikes (QC samples), are not normally applicable to geotechnical testing. This is due to the inability of obtaining samples with known characteristics, the heterogenous nature of the samples, and Quality Control procedures built-in to the analytical method.

QC measures to ensure accuracy and precision of test results include the following:

- 100% verification on all numerical results - all raw data entries, transcriptions and calculations entered by lab technicians are checked, recalculated and verified. Most data calculations are performed by computer programs.

- Data validation through test reasonableness - summaries of all test results for individual reports are reviewed to determine the overall reasonableness of data and to determine the presence of any data that may be considered outliers.

- Quality control procedures are built into most standardized geotechnical procedures. For example, many analyses routinely call for a re-analysis, specifying an acceptance criteria.

- Routine instrument calibration - all instruments, gauges and equipment used in testing are calibrated on a routine basis. All instrument calibration follows ASTM or manufacturer guidelines.

- Maintenance of all past calibration records - records and certification documents of all instruments, gauges and equipment are updated routinely and maintained in the Quality Control Coordinators Quality/Operations files.

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- Use of trained personnel for conducting tests - all technicians are trained in the application of standard laboratory procedures for geotechnical analyses as well as the quality assurance measures implemented by IT.

IV. Data Qualification

Fine sieve and hydrometer results occasionally overlap due to organic debris, soluble salts or other contaminants contained in the sample. Data points are plotted as calculated. No attempt has been made to curve-fit the grainsize data points.

The cation exchange procedure included analysis of a blank, duplicate and a matrix spike. The blank value was found to be near the method detection limit of 0.05 mg/l for sodium analysis. The relative percent difference for the duplicate sample was 2.1%. The matrix spike recovery was 73 %.

Moisture contents are calculated in accordance with ASTM D 2216. Given results are based on the sample dry weight, not on the sample wet weight as is common in analytical chemistry.

Appendix A

Karmen Deane
IT Corporation
March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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Rec'd [illegible] 3/3[illegible]

CROSS-REFERENCE LIST

ETDC SAMPLE NO.	CLIENT SAMPLE NO.
ETDC-4551	B311077-06A
ETDC-4552	B311077-06B

Appendix B

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IT Corporation
March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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3/2/94

PARTICLE SIZE ANALYSIS
ASTM D 422

Project Name: TINKER AFB

Client No. B311077-06A

Project Number: 483500.094.01

ETDC No. ETDC-4551

Specific Gravity 2.6500 Assumed

Moisture Content = NA

SIEVE ANALYSIS

COARSE

Sieve No.	Diameter mm	Percent Finer
3"	75.000	100.0%
1.5"	37.500	100.0%
0.75"	19.000	100.0%
0.375"	9.500	100.0%
#4	4.750	100.0%
#10	2.000	100.0%

FINE

Sieve No.	Diameter mm	Percent Finer
#20	0.850	99.9%
#40	0.425	99.7%
#60	0.250	99.3%
#100	0.149	98.8%
#140	0.106	97.2%
#200	0.075	93.6%

HYDROMETER ANALYSIS

HYDROMETER

Diameter mm	Percent Finer
0.05561	85.2%
0.04095	76.0%
0.03037	64.9%
0.01997	54.7%
0.01211	41.6%
0.00863	38.5%
0.00635	26.4%
0.00475	3.0%
0.00328	0.0%
0.00142	0.0%

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March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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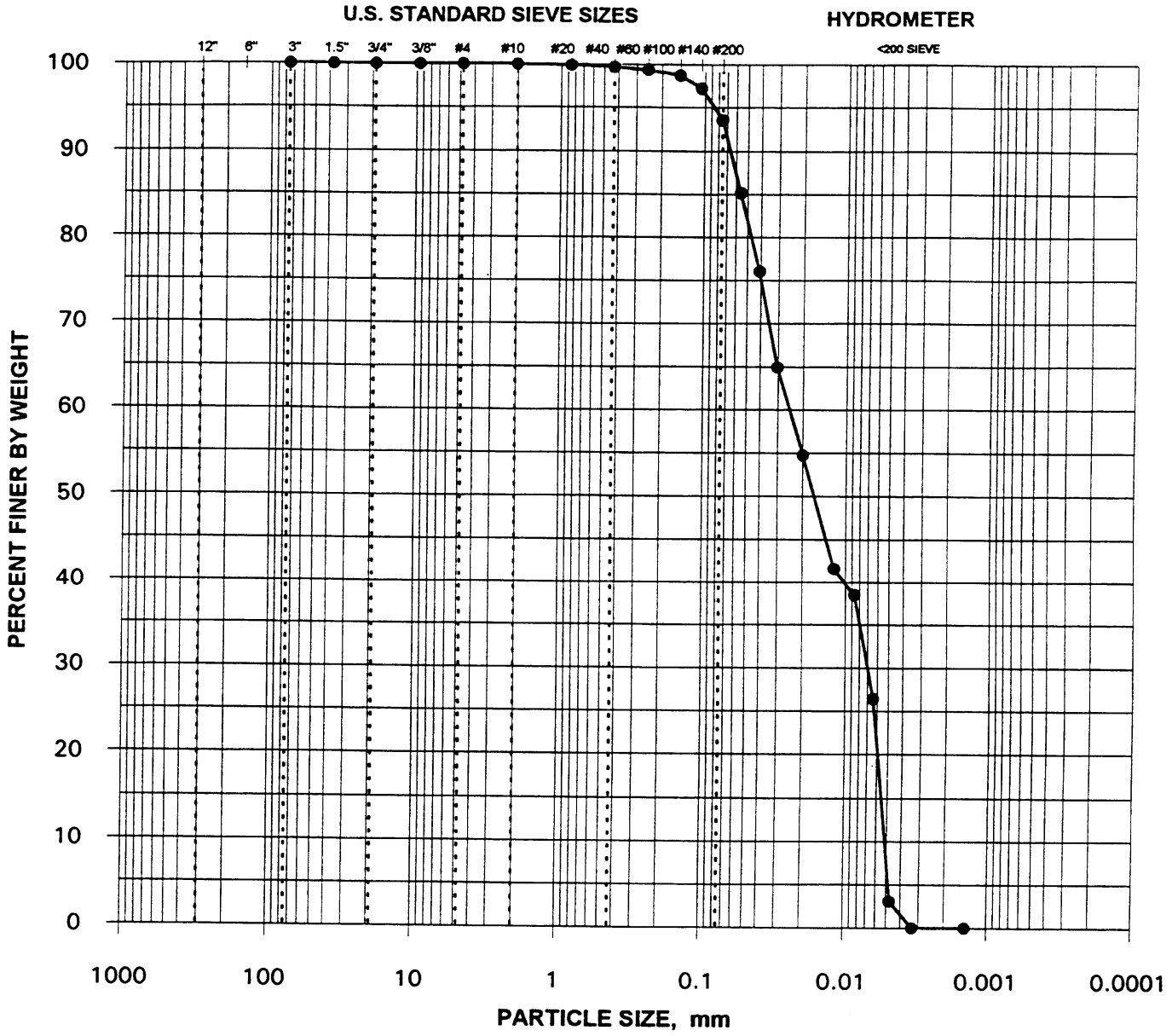
Routed to CF [illegible]

TINKER AFB



CLIENT SAMPLE NO. B311077-06A

ETDC SAMPLE NO. ETDC-4551

BOULDERS	COBBLES	GRAVEL		SAND			
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT 2 - 75 microns CLAY <2 microns

682A-6-93

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March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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MOISTURE CONTENT
ASTM D 2216

PROJECT NAME: TINKER AFB **PROJECT NUMBER:** 483500.094.02

ETDC SAMPLE NO.	CLIENT SAMPLE NO.	MOISTURE CONTENT
ETDC-4551	B311077-06A	22.4%

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Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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CATION EXCHANGE CAPACITY
EPA SW-846
METHOD 9081

PROJECT NAME: TINKER AFB PROJECT NUMBER: 483500.094.02

ETDC SAMPLE NUMBER	CLIENT SAMPLE NUMBER	WEIGHT OF SAMPLE, GRAMS	SODIUM CONCENTRATION, MG/L	CATION EXCHANGE CAPACITY, MEQ/100 GRAMS	RPD % *
ETDC-4551	B311077-06A	6.24	221.0	15.41	

*RPD = RELATIVE PERCENT DIFFERENCE FOR ORIGINAL & DUPLICATE SAMPLES

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IT Corporation
March 16, 1994
Client Project ID: TINKER AFB
ETDC Project No.: 483500.094.02

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PERMEABILITY RESULTS

ETDC SAMPLE NO.	CLIENT SAMPLE NO.	LENGTH/ DIAMETER/ WEIGHT	COEFF. OF PERMEABILITY
ETDC-4552	B311077-06B	10.407 cm/ 3.567 cm/ 219.50 grams	4.5 E-8 cm/s
ETDC-4554	B311067-04B	6.458 cm/ 3.523 cm/ 124.32 grams	2.3 E-6 cm/s

Appendix C

Rec'd + CF, TL, KLi 3/21/94

INTERNATIONAL TECHNOLOGY CORPORATION

483500.094.02

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 41628
Page 1 of 1

Project Name/No. 1 Tinker 5001 B311077
Sample Team Members 2 Client
Profit Center No. 3 4627
Project Manager 4 Karmen Deane
Purchase Order No. 6 Will follow
Required Report Date 11 11-23-93

Samples Shipment Date 7 11-9-93
Lab Destination 8 ETDC
Lab Contact 9 B. Leamon
Project Contact/Phone 12 (512) 892-6684
Carrier/Waybill No. 13 Fed-Ex 188 2115 803

Bill to: 5 ITAS Austin

Report to: 10 ITAS Austin
Karmen deane

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
B311077-06A	2-68A14.5	11-4-93 1318	Sleve	X1	4°C	CEC-A, MOIS-G Grain	ETDC OK 4551	
B311077-06B	2-68A14.5	11-4-93 1318	Sleve	X2	4°C	V- PERM	ETDC 4552	
~~B311077-06B~~							ETDC-4563	
			11-9-93 a					

FOR LAB USE ONLY

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☑ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☑ Rush ☐

QC Level: 27
I. ☐ II. ☐ III. ☐ Project Specific (specify): _____

1. Relinquished by 28 (Signature/Affiliation) [signature] IT Corp	Date: 11-9-93 Time: 1700	1. Received by 28 (Signature/Affiliation) [signature] IT	Date: 11-10-93 Time: 1010
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29