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HAZARDOUS WASTE
PROGRAM
1995

GRC 95 red file

February 28, 1995

Ron Kern
Supervisor - Technical Group
Hazardous & Radioactive Materials Bureau
New Mexico Environment Department
525 Camino De Los Marquez
Santa Fe, New Mexico 87502

Re: **LTA Special Sampling Event**

Dear Mr. Kern:

Enclosed is the **Report on the Special Sampling Activities at the Land Treatment Unit** for additional sampling characterization activities that were performed October 24-27, 1994 at Giant's Ciniza refinery.

The purpose of this sampling was to document the extent of hazardous constituents at the Land Treatment Unit and support the adequacy of the proposed **Closure/Contingency Post-Closure** plan submitted by Giant in October, 1994.

If you require additional information, please contact me at (505) 722-0227.

Sincerely,

Lynn Shelton

Lynn Shelton
Senior Environmental Coordinator

TLS:sp

cc: David Pavlich, Health, Safety, and Environmental Manager
Giant Refining Company

Kim Bullerdick, Corporate Counsel
Giant Industries Arizona, Inc.

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TLS\HRMB0227

REPORT ON THE SPECIAL SAMPLING ACTIVITIES AT THE LAND TREATMENT UNIT

CINIZA REFINERY
VOLUME I

REPORT ON THE SPECIAL SAMPLING ACTIVITIES AT THE LAND TREATMENT UNIT

GIANT REFINING COMPANY
CINIZA REFINERY
NMD000333211-2

PREPARED BY:
LYNN SHELTON, CET
SENIOR ENVIRONMENTAL COORDINATOR

FEBRUARY 24, 1995

TLS\LTA0195

TABLE OF CONTENTS

1.0 INTRODUCTION

2.0 SITE SURVEY

3.0 SAMPLING ACTIVITIES

3.1 SOIL SAMPLES

3.2 EQUIPMENT RINSATE SAMPLES

3.3 SAMPLE IDENTIFICATION

4.0 LABORATORY ANALYSIS

4.1 PROJECT QUALITY ASSURANCE

5.0 STATISTICS

6.0 DATA SUMMARY

7.0 CONCLUSIONS

8.0 RECOMMENDATIONS

APPENDIX A: CONSULTANTS REPORT

APPENDIX B: BORING LOGS

APPENDIX C: TABULATED ANALYTICAL DATA

APPENDIX D: ORIGINAL ANALYTICAL DATA

LIST OF FIGURES

FIGURE 1: LTA GRID DRAWING

FIGURE 2: RANDOM NUMBERS TABLE

FIGURE 3: COEFFICIENT OF VARIATION - CHROMIUM AND LEAD IN THE ZOI

FIGURE 4: STUDENT'S-T TEST

LIST OF TABLES

TABLE 1: ZOI AND WTZ ANALYTICAL PARAMETERS

TABLE 2: MODIFIED SKINNER LIST

TABLE 3: ANALYTICAL COMPARISONS - ZOI AND WTZ

TABLE 4: TABLE OF DETECTIONS - BTZ

1.0 INTRODUCTION

Additional sampling activities were performed at the **Land Treatment Unit** (or area: LTA) during the period of October 24, 1994 to October 27, 1994 to further characterize the presence (and quantity if present) of hazardous constituents in the **Zone of Incorporation (ZOI), Within the Treatment Zone (WTZ),** and **Below the Treatment Zone (BTZ)** as suggested in the September 12, 1994 letter from the New Mexico Environment Department Hazardous and Radioactive Materials Bureau (NMED/HRMB).

The sampling was performed under agreement with HRMB, prior to final approval of the Closure/Contingency Post-Closure Plan, Appendix 1, Land Treatment Area Characterization Plan, to perform all sampling activities prior to inclement winter weather conditions.

Fourteen additional borings were drilled and sampled within the **LTA**. Eleven of the boring sites were selected by using a grid overlaying the **LTA** (Figure 1) and then selecting sampling points from a random numbers table (Figure 2). The remaining three points (see the **LTA** grid drawing, Figure 1) were requested by the Hazardous and Radioactive Materials Bureau.

The results of the sampling event will support Giant's proposal for closure of the Land Treatment Area.

2.0 Site Survey

After additional leveling in Cell #3 of the **LTA** is completed, Giant will provide an updated survey plat, to be provided by Sterling & Mataya, Inc.

3.0 Sampling Activities

The firm of Monteverde Incorporated (6501 Americas Parkway Northeast, Suite 200, Albuquerque, New Mexico, 87110) was chosen to provide sampling collection and oversight of equipment decontamination. Karl Giron was the field technician at the project. The consultant's report is included as Appendix A.

The firm of Precision Engineering, Inc. (2001 Copper Avenue, Suite 1, Las Cruces, New Mexico, 88004) performed the drilling operations, coring, and equipment decontamination. William Kingsley, P.E., supervised all operations by the firm and also did the lithologic logs of each bore hole.

GIANT REFINING COMPANY-CINIZA
LAND TREATMENT UNIT
SAMPLING GRID
RANDOM NUMBER SYSTEM
#43,173 AND 178 ADDED AT NMED/HRMB REQUEST

SCALE
1 GRID = 24' x 24

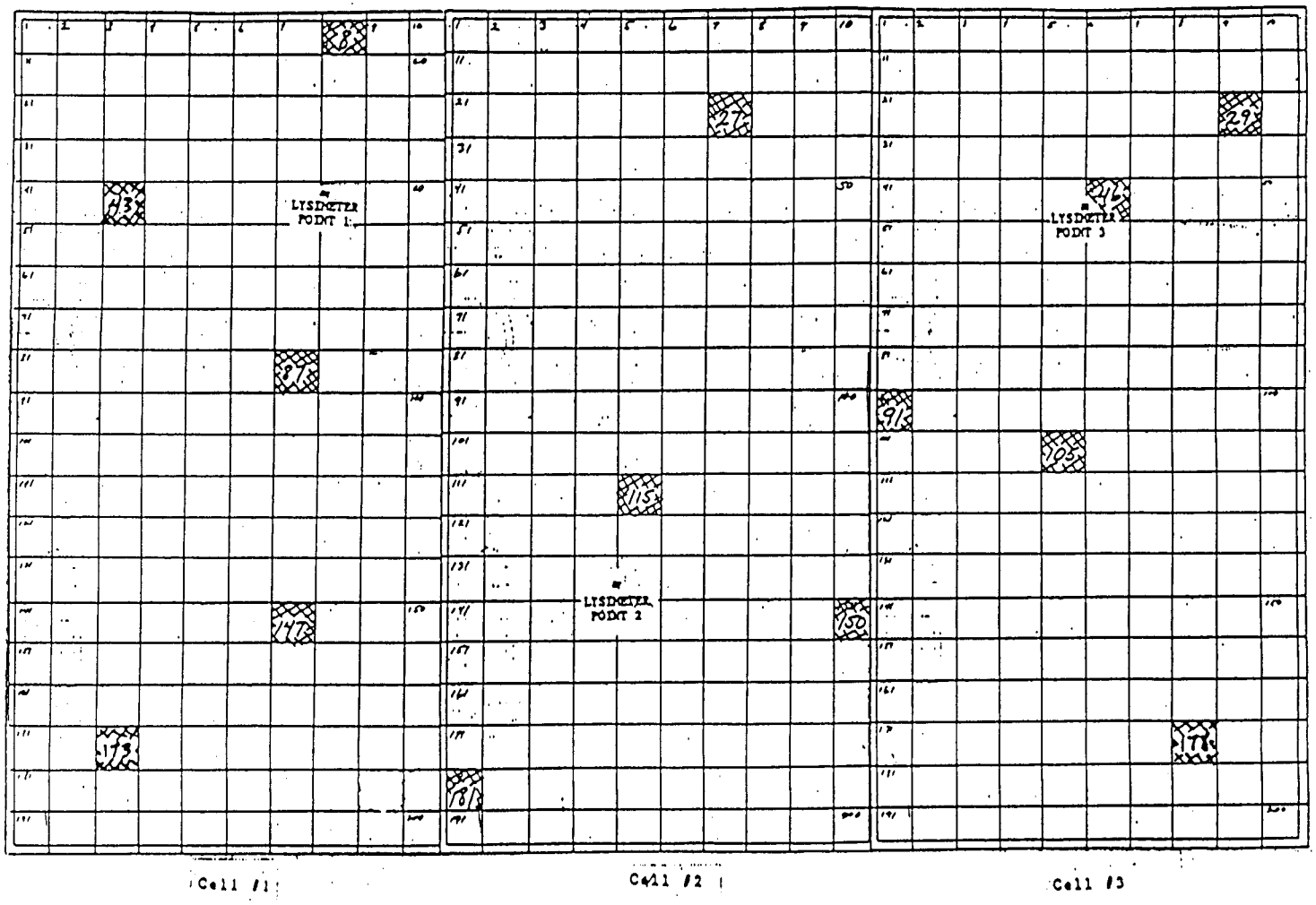

FIGURE 1

FIGURE 2

RANDOM NUMBERS TABLE

97	161	27	32	166	137	97	35	159	47
158	102	149	31	199	56	1	20	53	17
79	8	176	124	128	45	8	16	181	154
176	4	18	13	96	105	113	109	140	161
90	100	11	110	160	187	17	130	19	145
162	44	193	107	51	183	26	44	43	194
177	147	123	120	126	149	55	106	59	94
160	170	136	85	198	98	3	24	2	199
51	178	19	74	198	79	137	38	179	94
29	55	26	69	98	118	36	92	174	28
187	75	116	21	11	91	182	92	193	78
41	143	186	145	155	136	23	185	126	65
122	134	38	14	141	82	72	42	8	70
144	40	70	90	133	6	172	8	144	195
139	35	89	72	152	173	115	42	187	137
75	168	131	107	57	162	25	101	80	167
141	14	67	93	71	28	101	142	16	130
179	187	140	139	164	124	118	97	62	179
197	104	7	179	24	159	191	69	72	194
25	194	174	157	64	112	146	34	76	175
79	154	97	127	186	182	152	64	94	50
174	114	153	105	112	59	159	37	57	183
167	181	75	52	88	37	69	4	38	105
80	180	40	180	26	153	155	113	3	86
132	72	42	189	145	13	142	95	32	93
191	31	85	36	62	99	104	93	34	50
82	89	99	158	117	112	8	79	20	31
133	11	122	104	76	128	55	156	20	104
85	83	42	15	92	87	86	121	83	68
125	113	6	90	87	40	71	55	0	199
40	191	23	91	197	191	100	30	153	111
29	30	95	164	175	20	144	14	111	133
128	10	123	31	126	64	161	85	200	121
77	85	168	199	22	1	129	80	154	175
102	112	22	147	184	98	73	5	89	50
168	176	181	66	28	23	148	21	7	79
145	20	26	185	46	16	142	50	131	23
93	19	154	45	14	54	12	49	132	9
65	182	152	120	26	90	51	84	171	21
74	138	87	70	154	28	7	154	61	171

Analytical work was performed by Analytical Technologies, Inc. (2709-D Pan American Freeway Northeast, Albuquerque, New Mexico, 87107).

Coordination of the sampling event was by Lynn Shelton, CET, of Giant. Material support and sample disposition was provided by Walt Toomer, Environmental Engineer, of Giant. Bob Sweeney, of the HRMB, was present to observe coring, sampling, and site conditions.

No unusual problems were encountered during sampling, drilling, and decontamination.

3.1 Soil Samples

During the drilling of sample bores, a hollow stem auger with a two and on-half inch CME tube (split spoon device) was used to drill and advance the sample tube. The carbon steel CME tube was set up to advance six inches ahead of the augers to prevent contamination during the addition or removal of auger flights. Continuous coring was achieved in this manner. The carbon steel CME tube was used to preclude any bias by chrome contamination that has been found to occur with stainless steel CME tubes (and, incidentally, with stainless steel casing or fittings in groundwater wells).

To be absolutely certain that no cross-contamination would occur, each auger flight and CME tube was decontaminated after each advance by washing with liquinox soap solution and by high pressure steam cleaning.

Samples were collected at each specified interval with decontaminated metal spatulas and placed into a decontaminated stainless steel bowl for disposition into sample bottles.

Measurement to each sample interval was provided by Mr. Kingsley as he recorded the lithology. All measurements are accurate to ± 2.0". Lithologic logs are attached as Appendix B.

Although soil discoloration and staining were evident, and expected, in the ZOI, no discoloration or staining was observed within either the WTZ or BTZ intervals.

3.2 Sample Identification

The identification system used in this sampling event was similar to the identification system used in past LTA sampling events. The various components of the system are explained below:

(1)	(2)	(3)	(4)	(5)
LTA	01	ZOI	1.0	D

(1)	LTA	=	Land Treatment Area
(2)	01	=	Sample Location Number
(3)	ZOI	=	ZOI, WTZ, or BTZ Interval
(4)	1.0	=	Depth of Sample
(5)	D	=	Duplicate
	E	=	Equipment Rinsate
		=	Original Sample

Please note that Analytical Technologies, Inc. assigned two other suffixes on some samples. The suffix X was used on sample #LTA 04 BTZ 20.0X to differentiate between that sample and sample #LTA 04 BTZ 20.0. This was due to the inadvertent labeling of LTA 04 BTZ 25.0 as LTA 04 BTZ 20.0. The suffix L was added to a couple of duplicate samples for unknown reasons.

4.0 Laboratory Analysis

ZOI and **WTZ** samples were analyzed for the parameters listed in Table 1. **BTZ** samples were analyzed for the Modified Skinner List as shown in Table 2. The following methods were used in analyzing the soil and water samples:

SW-846	Method 8240	Volatile Organics
SW-846	Method 8270	Semi-Volatile Organics
SW-846	Method 6010	Total Metals by ICP

Original analytical data is included as Appendix C.

4.1 Project Quality Assurance

A "Laboratory Quality Assurance Plan" from Analytical Technologies, Inc. outlines the quality assurance and quality control procedures to be followed by the laboratory in analyzing the soil and water samples. A copy of that document is kept on file at the Giant

TABLE 1

ZOI AND WTZ ANALYTICAL PARAMETERS

pH

OIL & GREASE

% MOISTURE

KJELDAHL NITROGEN

TOTAL PHOSPHOROUS

TABLE 2 CONSTITUENTS
(Modified Skinner List)

TOTAL CHROMIUM

TOTAL LEAD

TABLE 2
MODIFIED SKINNER LIST
8240 VOLATILE ORGANICS

PARAMETER	EPA METHOD SW-846	DESCRIPTION	CONTAINER	PRESERVATIVE	HOLDING TIME/DAYS	DETECTION LIMIT	UNITS
Benzene	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
2-Butanone (MEK)	8240	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Carbon Disulfide	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Chlorobenzene	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Chloroform	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
1,4-Dioxane	8240	GC/MS	G GLASS	4°C	14	500	ug/kg
Ethylbenzene	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Styrene	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
1,1,2,2-Tetrachloroethane *	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Tetrachloroethene *	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Toluene	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
1,1,1-Trichloroethane	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Ethylene Dibromide *	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Acetone	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Dichloromethane *	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg
Benzyl Alcohol *	8240	GC/MS	G GLASS	4°C	14	5.0	ug/kg

* Additional Compounds Constituents

TABLE 2 (CONT'D)
MODIFIED SKINNER LIST
8270 SEMI-VOLATILE ORGANICS

PARAMETER	EPA METHOD SW-846	DESCRIPTION	CONTAINER	PRESERVATIVE	HOLDING TIME/DAYS	DETECTION LIMIT	UNITS
Anthracene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Benzo(A)Anthracene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Benzo(B)Fluoranthene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Benzo(K)Fluoranthene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Benzo(A)Pyrene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Butyl Benzyl Phthalate	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Chrysene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Dibenz(A,H)Anthracene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Diethyl Phthalate	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
7,12-Dimethylbenz (A)-Anthracene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Dimethyl Phthalate	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Di-N-Octyl Phthalate	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Fluoranthene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Indeno(1,2,3-CD)Pyrene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
1-Methylnaphthalene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
2-Methylphenol (Cresol)	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
3/4-Methylphenol (Cresol)	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Naphthalene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
4-Nitrophenol	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Phenanthrene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Pyrene	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Pyridine	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Quinoline	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Benzenethiole	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Phenol	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Bis(2-Ethylhexyl)phthalate *	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Dibenz(a,h)acridine *	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Dichlorobenzene *	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
Methyl Naphthalene *	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
2,4-Dimethylphenol	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg
2,4-Dinitrophenol *	8270	GC/MS	G GLASS	4°C	14	10.0	ug/kg

* Additional Constituents

Note: This list is a modification of Table 4, Part B Permit, Attachment F, Closure and Post-Closure Plan

facility and can be provided upon request.

5.0 Statistics

Selection of a statistical test to evaluate the analytical data is critical to the determination of statistical increase (or lack of increase) of a specific set of sample results.

The correct statistical test is one that can supply the information needed to make a valid statistical comparison at a reasonable confidence level. Factors in selecting a statistical test include the number of samples, number of units in the background population (if appropriate), and parametric/non-parametric factors.

The coefficient of variation (CV) test (Figure 3) was used to determine the normality/non-normality of the analytical results for chromium and lead in the **ZOI** only. To determine if loading of each constituent was fairly uniform, the CV test was performed on each. Lead data showed normal distribution, but chromium did not. This indicates that the areas showing higher levels of chromium could be managed to distribute chromium levels over a broader area.

Cochran's approximation of the Behrens-Fisher Students T Test was used to determine if significant statistical increases of chromium and lead had occurred **Within the Treatment Zone** (Figure 4). Adequate background data was available to perform this test at a 95% confidence level. Specifically, data from the three foot and five foot intervals were tested against the background data from the same depth intervals. This test indicated no significant statistical increase in chromium or lead **Within the Treatment Zone**.

6.0 Data Summary

Analytical data for hydrocarbon levels in the **ZOI** indicated that their residual levels were even lower than had been anticipated. Giant had expected to observe residual hydrocarbon levels in the 3% to 7% range (30,000 to 70,000 ppm), measured as oil and grease (see Appendix D). The highest individual sample concentration of residual hydrocarbon observed in the **ZOI** was only 1.3% (13,000 ppm) with a mean concentration of all **ZOI** samples at 0.58% (5,787 ppm). The residual concentrations of volatile and semi-volatile organics in the **ZOI**, as measured by Methods 8240

FIGURE 3

COEFFICIENT of VARIATION

ZOI (0.0–1.0')

Chromium	
	1.8
A	127
N	6.4
A R	158
L E	4.7
Y S	339
T U	341
I L	234
C T	1.8
A	7.2
L	6.1
	3.4
	1.9
	8.2

Mean	88.6071
SD	124.6065
CV	1.4063

Lead	
	8
A	54
N	8
A R	63
L E	6
Y S	55
T U	54
I L	76
C T	8
A	10
L	10
	10
	7
	11

Mean	27.1429
SD	25.3345
CV	0.9334

FIGURE 4a

SPECIAL SAMPLE EVENT

Facility Name:	GIANT CINIZA	EPA ID #:	NMD000333211-2
Date:	10-94	Parameter:	Chrome
Sample :	1.0-5.0'	Prepared by:	Lynn Shelton

Please list the values calculated for the background parameters on the Background Indicator Parameter Calculation Sheet:

X(b)=	4.75	S(b)2=	1.1875	t(b)=	2.353
W(b)=	0.296875	n(b)=	4		

Please list the current values for this monitoring well.

	Value	(Value - X(m))2
1	3.4	0.3600
2	2.4	2.5600
3	2.2	3.2400
4	2.6	1.9600
5	4.3	0.0900
6	6.8	7.8400
7	3.2	0.6400
8	6	4.0000
9	3.4	0.3600
10	3	1.0000
11	4.5	0.2500
12	2.7	1.6900
13	2.9	1.2100
14	8.6	21.1600
Total 1	56	Total 2 25.2

Mean value X(m)	4	t(m)=	1.771
Variance S(m)2	1.8	W(m)=	0.1286

t(*)= -1.14984

t(c)= 2.177117

If t(*) absolute is less than t(c) there has not been an increase in the value

Lynn Shelton

Signature

FIGURE 4b

SPECIAL SAMPLE EVENT

Facility Name:	GIANT CINIZA	EPA ID #:	NMD000333211-2
Date:	10-94	Parameter:	Chrome
Sample :	5.0-6.0'	Prepared by:	Lynn Shelton

Please list the values calculated for the background parameters on the Background Indicator Parameter Calculation Sheet:

X(b)=	4.833	S(b)2=	2.8056	t(b)=	2.015
W(b)=	0.4676	n(b)=	6		

Please list the current values for this monitoring well.

	Value	(Value - X(m))2
1	3.1	0.2947
2	2.2	2.0818
3	1.6	4.1733
4	2.6	1.0876
5	6.8	9.9676
6	3.1	0.2947
7	3.2	0.1961
8	8.5	23.5918
9	3.1	0.2947
10	2.1	2.3804
11	4.9	1.5804
12	3.4	0.0590
13	3	0.4133
14	3.4	0.0590
Total 1	51	Total 2 46.4153

Mean value X(m)	3.6429	t(m)=	1.7710
Variance S(m)2	3.3154	W(m)=	0.2368

t(*)=	-1.4180
t(c)=	1.9330

If t(*) absolute is less than t(c) there has not been an increase in the value

Lynn Shelton

Signature

FIGURE 4c

SPECIAL SAMPLE EVENT

Facility Name:	GIANT CINIZA	EPA ID #:	NMD000333211-2
Date:	10-94	Parameter:	Lead
Sample :	1.0-5.0'	Prepared by:	Lynn Shelton

Please list the values calculated for the background parameters on the Background Indicator Parameter Calculation Sheet:

X(b)=	10	S(b)2=	1	t(b)=	2.353
W(b)=	0.25	n(b)=	4		

Please list the current values for this monitoring well.

	Value	(Value - X(m))2
1	8	0.1276
2	9	1.8418
3	9	1.8418
4	7	0.4133
5	10	5.5561
6	7	0.4133
7	5	6.9847
8	6	2.6990
9	8	0.1276
10	5	6.9847
11	9	1.8418
12	8	0.1276
13	7	0.4133
14	9	1.8418
Total 1	107	Total 2 29.3724489

Mean value X(m)	7.642857	t(m)=	1.771
Variance S(m)2	2.098032	W(m)=	0.1498594

t(*)= -3.72762

t(c)= 2.134877

If t(*) absolute is less than t(c) there has not been an increase in the value

Lynn Shelton

Signature

FIGURE 4d

SPECIAL SAMPLE EVENT

Facility Name:	GIANT CINIZA	EPA ID #:	NMD000333211-2
Date:	10-94	Parameter:	Lead
Sample :	5.0-6.0'	Prepared by:	Lynn Shelton

Please list the values calculated for the background parameters on the Background Indicator Parameter Calculation Sheet:

X(b)=	10.5	S(b)2=	1.5833	t(b)=	2.015
W(b)=	0.263883	n(b)=	6		

Please list the current values for this monitoring well.

	Value	(Value - X(m))2
1	7	0.5102
2	9	1.6531
3	7	0.5102
4	5	7.3673
5	11	10.7959
6	7	0.5102
7	6	2.9388
8	6	2.9388
9	7	0.5102
10	7	0.5102
11	9	1.6531
12	8	0.0816
13	8	0.0816
14	11	10.7959
Total 1	108	Total 2 30.0612

Mean value X(m)	7.7143	t(m)=	1.7710
Variance S(m)2	2.1472	W(m)=	0.1534

t(*)=	-4.3126
t(c)=	1.9253

If t(*) absolute is less than t(c) there has not been an increase in the value

Lynn Shelton

Signature

and 8270, corroborate those levels.

Hydrocarbon concentration in the **WTZ** is at even lower levels, as would be expected with successful bio-remediation of organics. Only one sample in the three and five foot intervals had a detectable concentration of oil and grease (0.13%, 130 ppm). Again, residual volatile and semi-volatile organic levels in the three and five foot intervals of the **WTZ** corroborate the oil and grease data. A comparison of analytical observations is included as Table 3.

Hydrocarbon concentration was characterized in the **BTZ** by Methods 8240 and 8270. Table 4 lists the detections by sample number and depth for both volatile and semi-volatile organics. The original analytical data (Appendix C) contains additional observations. The only volatile organics detected in the **BTZ** were acetone and dichloromethane. In fact, either or both constituents were detected in 94% of all the samples collected in this event as well as several matrix blanks. Acetone was detected in 49 **BTZ** samples, with 30 of those being detected in the matrix blank also. All of the dichloromethane detections were also observed in the matrix blanks.

Only one semi-volatile organic, bis(2-ethylhexyl) phthalate, was detected in four **BTZ** samples.

General chemistry analysis indicated that existing conditions in the **LTA** are correct for optimum biodegradation of organic constituents and immobilization of lead and chromium.

Those conditions are determined by using the mean of carbon, nitrogen, and phosphorous to develop the carbon:nitrogen:phosphorous ratio. The mean of the pH and percent moisture are maintained at prescribed limits.

The mean of those constituents in the **ZOI** are:

pH	8.04
Percent Moisture	20.26
Carbon (Oil & Grease)	5787
Nitrogen	320
Phosphorous	176

7.0 Conclusions

The purpose of this sampling event was to characterize the potential migration of hazardous constituents (and concentrations, if applicable) **Below the Treatment Zone** as a condition of clean closure of the **LTA** and to determine the residual levels of hazardous constituents within the **Zone of**

TABLE 3

ANALYTICAL COMPARISONS
VOCs, SVOCs, and Oil & Grease

Parameter	01 1.0	01 3.0	01 5.0	02 1.0	02 3.0	02 5.0	03 1.0	03 3.0	03 5.0	04 1.0	04 1.0DL	04 2.6	04 5.0	05 1.0	05 3.0	05 5.0	06 1.0	06 3.0	06 5.0	07 1.0	07 1.0DL	07 3.0	07 5.0
Acetone	---	---	---	19	7	5	---	---	---	56	---	46	21	---	---	---	---	---	---	13	---	---	---
Toluene	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45	---	---	---	---	---	---
Methyl Ethyl Ketone	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Oil & Grease	3100	<20	<20	6200	<20	<20	470	<20	<20	6900	---	<20	<20	160	<20	<20	13000	130	<20	9900	---	<20	<20
2-Methylnaphthalene	1000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14000	---	---	---	---	---	---
Pyrene	2600	---	---	1500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)anthracene	2500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	5100	---	---	5000	---	---	3100	---	---	---	5300	---	---	---	---	---	---	---	---	2300	3400	---	---
Benzo(b)flouranthene	930	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	---	---
Benzo(k)flouranthene	1500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)pyrene	3500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenol	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Parameter	08 1.0	08 1.0DL	08 3.0	08 5.0	09 1.0	09 3.0	09 5.0	10 1.0	10 3.0	10 5.0	11 1.0	11 2.6	11 5.0	12 1.0	12 3.0	12 5.0	13 1.0	13 3.0	13 5.0	14 1.0	14 3.0	14 5.0
Acetone	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Oil & Grease	12000	---	<20	<20	<20	<20	<20	350	<20	<20	<20	<20	<20	<20	<20	<20	100	<20	<20	<20	<20	<20
2-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)anthracene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	---	3700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(b)flouranthene	---	1500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(k)flouranthene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)pyrene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenol	360	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 4

SPECIAL SAMPLING EVENT GIANT REFINING COMPANY - CINIZA

TABLE OF DETECTIONS - VOCs (BTZ only)*

Parameter	01 10.0	01 15.0	01 20.0	01 25.0	01 25.0D	02 10.0	02 15.0	02 20.0	02 25.0	03 10.0
Acetone	6	5	11	6	5	6	10	9	7	8
Toluene	---	---	---	---	---	---	---	---	---	---
Ethylbenzene	---	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	---	---	---	---	---	---	---	---	---	---

Parameter	03 15.0	03 25.0	04 10.0	04 15.0	04 20.0	04 25.0	07 15.0	07 20.0	07 25.0
Acetone	7	7	24	12	31	16	12	21	12
Toluene	---	---	---	---	---	---	---	---	---
Ethylbenzene	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	---	---	---	---	---	---	---	---	---

TABLE OF DETECTIONS - SVOCs (BTZ only)

Parameter	01 15.0	04 15.0	09 10.0	13 10.0RX
2-Methylnaphthalene	---	---	---	---
Pyrene	---	---	---	---
Benzo(a)anthracene	---	---	---	---
Chrysene	---	---	---	---
Benzo(b)flouranthene	---	---	---	---
Benzo(k)flouranthene	---	---	---	---
Benzo(a)pyrene	---	---	---	---
Bis(2-Ethylhexyl)phthalate	510	590	750	1700
Phenol	---	---	---	---

* This table does not contain analytical results marked with a B, which indicated that the constituent had been observed in a blank.

Incorporation and **Within the Treatment Zone** for implementing closure activities.

The analytical data indicate that the enhanced management of the **LTA**, such as leveling, discing, and fertilizer applications, has been successful in reducing hydrocarbon levels even lower than Giant had anticipated.

The minimum carbon:nitrogen:phosphorous ratio that will assure optimum biodegradation is usually assigned a value of 100:10:1. Analytical data from the **ZOI** indicates a value of 5787:320:176. Additions of nitrogen fertilizer will be needed to maintain a 600 ppm residual until the carbon content is lowered. The mean of the pH from the background plot was 8.075, indicating the pH, as determined from the **ZOI** samples from this event, is essentially unchanged from background. A pH of 6.0 to 9.0 is prescribed for biodegradation and the **LTA** is certainly within that range, which also provides an additional benefit: heavy metals are immobilized with the existing clay conditions and a pH above 7.0. Below 6.0 pH, metals begin to migrate downward.

The percent moisture level at the time was also ideal and should be maintained at 20.0 ± 2.0% to provide an adequate interface between water molecules and residual hydrocarbon molecules, which is necessary for microbial action. The percent moisture should not be substantially greater than 20.0% to 25.0% or percolation may begin. This is not desirable.

Chromium and lead levels were relatively low. Although lead was normally distributed, chromium levels were non-normal and this information can be used to identify areas that may benefit from additional discing and soil distribution to lower those levels to those of the rest of the site. By maintaining an acceptable pH level (8.0 ± .5 pH), Giant can assure that future migration of chromium and lead will not occur.

Residual hydrocarbon levels in the **ZOI** and **WTZ** are, again, lower than Giant had anticipated. Giant expected to see residual levels of oil and grease in the 3% to 7% (30,000 to 70,000 ppm) range. The highest concentration was 1.3% (13,000 ppm). This is low enough to warrant proceeding with a phytotoxicity test (such as Microtox) to verify that a vegetative cover can be established.

Acetone and dichloromethane levels observed in the **BTZ** are highly suspect. Neither constituent is a by-product of Giant's refining process. Although solvents were occasionally applied to the **LTA** in the 1980s, the quantity applied (as determined by interviews with Giant employees) amounted to less than ten gallons per year. Solvents were generally recycled off-site, as shown by our shipping manifests, and those solvents were generally 1,1,1-trichloroethane.

Considering the small quantities and volatile nature of acetone and dichloromethane, it is inconceivable that those constituents would be present in the **BTZ**, particularly at the 20.0 to 25.0 depths.

Giant inquired about the possibility of lab contamination with the lab, Analytical Technologies, Inc. Lab personnel conceded that the acetone and dichloromethane were probably lab contamination, but also stated that the extent of the contamination would be difficult to quantify. Giant feels that those samples should have been reanalyzed at the time, but, unfortunately, they were not.

Due to the questionable validity of the data and the ubiquitous presence of the acetone and dichloromethane in the samples and blanks, Giant assumes that no contamination has occurred. This assumption is based on the fact that data from the next sampling interval, which is the water from the "Ciniza Sands", has never shown acetone or dichloromethane. The "Ciniza Sands" were located by using an orange sand interval immediately above the "Ciniza Sands" as a marker to prevent drilling into the "Ciniza Sands" during the sampling event.

For the sake of comparison, however, it should be noted that acetone and dichloromethane were seen in concentrations of no greater than 180 ppb acetone and 33 ppb dichloromethane in the **BTZ**. Neither constituent is listed in the **Water Quality Control Regulations, Part 3-103.A**. The mean of the concentrations of acetone and dichloromethane in the **BTZ** were, respectively, 14.65 ppb and 13.83 ppb.

In the absence of corroborating data from the "Ciniza Sands" interval and the low levels of observations of acetone and dichloromethane, Giant does not believe that actual contamination has taken place.

The only semi-volatile observed in the **BTZ** was bis(2-ethylhexyl) phthalate, a plasticizer and common contaminant derived from plastics, such as lids and seals. Four detections were seen, with a mean concentration of 888 ppb. This is an insignificant level and combined with only four observations, indicates that this contaminant is of no concern.

8.0 Recommendations

The analytical data has shown that enhanced management in the **LTA** during the past three years has been extremely successful in bioremediating residual hydrocarbon constituents. The

nutrient level, pH, and moisture content adjustments that are necessary have been identified.

The presence of acetone and dichloromethane in the BTZ, in addition to being suspect, is insignificant and, if actually present, will biodegrade anaerobically over time.

Based on these observation, Giant suggests that the closure plan be implemented immediately. Additional activities should include:

1) Level Cell #3.
2) Disc areas that show higher levels of chromium to redistribute the soil and reduce levels.
3) Apply additional nitrogen fertilizer to increase residual nitrogen to 600 ppm.
4) Analyze four random surface samples for phytotoxicity using the Microtox process (or equivalent).

Monteverde Inc.
Environmental Services & Technologies

November 23, 1994

Mr. Lynn Shelton
Senior Environmental Coordinator
Giant Refinery (Ciniza)
Route 3 Box 7
Gallup,New Mexico 87301

Dear Lynn,

Monteverde Inc. was retained by Giant Refining Company (Giant) to provide soil sampling and drilling oversight at their Ciniza facility.

Project duties for Monteverde Inc. personnel included: labeling and chain of custody seals for all samples collected, soil sample collection, rinsate sample collection, duplicate sample collection, sampling oversight, and drilling oversight.

Monteverde Inc. personnel were on the Ciniza site from October 24 through October 27 1994. The drilling locations were on a 7.2 acre area referred to as the Ciniza RCRA Land Treatment Area (LTA).

Fourteen corings were drilled within the 7.2 acre site. Samples were collected at 1.0, 3.0, 5.0, 10.0 15.0, 20.0 and 25.0 ft. There were two rinsate samples collected, one from the sampling equipment and one from the split spoon. There were four duplicate soil samples taken at random throughout the drilling process.

Giant provided personnel and material support to Monteverde as needed. Giant also provided sample transport to Federal Express for shipment to the analytical laboratory. Giant selected Analytical Technologies located in Albuquerque to perform all the analytical testing.

A decontamination procedure for the drilling equipment and the sample equipment was developed and implemented on all equipment at each sampling location.

The representative for NMED HRMB added two core drilling locations to provide a better distribution and representation of the land treatment area and Giant agreed to this, so the scope of

work was revised to reflect this.

Field activities and decontamination procedures are summarized in Attachment A. Chain of custody forms are provided in Attachment B. Photographs taken of field activities are included in Attachment C.

If you have questions regarding summary of field events and activities or if you are in need of more information, please contact Karl Giron, Project Manager at (505) 875-0420. Thank you for using Monteverde Inc. environmental services.

Sincerely,

Karl Giron
Project Manager

for Rupert Spivey
Senior Scientist

ATTACHMENT A - FIELD ACTIVITY SUMMARY

FIELD ACTIVITY SUMMARY

PROJECT BRIEFING

Arrived at Ciniza Refinery October 24, 1994 @ 0755, met with Lynn Shelton.

Attended overview meeting on project specifications. In attendance were the drillers, Bill Kingsly and his crew Tim and Jason, Bob Sweeney representing the State Hazardous Materials Group, Walt Toomer and David Pavlich with Giant. Lynn Shelton ran the meeting.

David Pavlich conducted a site orientation and safety requirement meeting. Went through the site safety checklist, explained egress and site safety requirements.

Informed by Lynn Shelton that all sample material and equipment would be supplied by Giant Refining.

DECONTAMINATION

Decontamination equipment and material used:

- Rubber gloves
- A portable rack was built to keep the split spoons and augers off the ground during decontamination.
- Two five gallon buckets were filled with DI water and placed in the vicinity of the portable rack.
- Liquinox was added to one of the five gallon buckets (one cup of liquinox to 4.5 gallons of DI water).
- A five gallon jug of DI rinse water was placed on the back of the drill rig.
- Scrub brushes were placed in the buckets of DI and liquinox mixture water.
- A steam cleaner with high pressure nozzle attachment were mounted on the drill rig supply truck.

Decontamination procedures were as follows:

Initial steam cleaning will clean surface area of residual bulk contamination.

Place new rubber surgical gloves on hands and put on a face shield.

1. Remove caps and open split spoon.

2. Steam clean outside of both halves of split spoon.

3. Steam clean inside of both halves of split spoon.

4. Steam clean both split spoon caps inside and out.

5. Using scrub brush, DI water liquinox mixture, scrub inside and outside of split spoons thoroughly.

6. Use scrub brush in DI water only bucket to scrub and rinse inside and outside of split spoon.

7. Repeat steps 5 and 6 for the split spoon caps.

8. Steam clean outside of split spoon thoroughly.

9. Steam clean inside of split spoon thoroughly.

10. Steam clean inside and outside of split spoon caps.

11. DI water rinse all parts of split spoon 3 times each.

12. Rebuild spilt spoon immediately.

This procedure was completed after every split spoon was used.

This procedure was also used for every auger used before leaving the drilling location.

DRILLING/SAMPLING SUMMARY

October 24, 1994

Seventeen (17) soil samples were collected from each location. The sample quantities and tests were as follows:

-1ft	3ea	8240, 8270 and general chemistry	Zone of Incorporation
-3ft	3ea	8240, 8270 and general chemistry	Within Treatment Zone
-5ft	3ea	8240, 8270 and general chemistry	Within Treatment Zone
-10ft	2ea	8240, 8270	Below Treatment Zone
-15ft	2ea	8240, 8270	Below Treatment Zone
-20ft	2ea	8240, 8270	Below Treatment Zone
-25ft	2ea	8240, 8270	Below Treatment Zone

Sample containers began with 120 milliliter teflon lid sample jars. When the 120 milliliter sample jars were depleted 240

milliliter sample jars were used.

1040- Moved to drilling site, a 7.2 acre area containing 3 cells known as the Land Treatment Area (LTA).

Began setting up drill rig. This included the liquinox scrub, steam cleaning and rinsing with the DI water of all drilling tools and pieces.

LTA-08

First sample location will be grid 150 in cell 2. First sample will be LTA-08-ZOI 1.0

1130- Minor problem develops with the steam cleaner, took lunch early to let repair crews fix problem.

1200- Repairs on steam cleaner are completed.

1310- Decontaminated split spoon, sample pan, and all utensils

1315- Began drilling

Due to volumes involved and time constraints it was decided that Giant personnel and Monteverde personnel would share the responsibility of placing the custody seals on the sample jars.

1444- Drilling is completed for this location.

1447- Decontamination of split spoons, drill augers, and utensils is completed.

1500- Move to next drill location.

LTA-07

1519- Began drilling.

1650- Completed drilling.

1652- Decontamination of all equipment.

LTA-04

1704- Began drilling.

LTA-04 first auger or 1.0 ft sample ok, however, 3.0 ft sample was compacted due to soil conditions. State representative Bob Sweeney recommended labeling 3.0 ft sample 2.6 ft. This was completed.

1810- Completed drilling.

1825- Tear down rig, decontaminate all equipment.

Giant personnel added 8 bags of bentonite to each core hole.

1940- Left site

October 25, 1994

Arrived at site 0750

Was informed by Giant personnel State Environmental Division Representative Bob Sweeney was satisfied with the protocols and procedures used in sampling so he left for Santa Fe after the first day.

LTA-09

0810- Decontamination of all equipment.

0820- Set up all sampling utensils and drill rig.

0855- Began drilling.

1030- Completed drilling

1045- Decontamination of all equipment.

LTA-05

1105- Began drilling

1155- Completed drilling

1205- Decontamination of all equipment

1300- Broke for lunch

LTA-06

1415- Began drilling

1508- Completed drilling

1515- Decontamination of all equipment

LTA-01

1550- Began drilling

1600- Collected rinsate sample from sampling equipment after 5.0 ft soil sample and decon.

1610- Collected rinsate sample from split spoon after collecting 10.0 ft soil sample.

1630- Collected duplicate samples from 15.0 ft soil samples.

1700- Completed drilling

1720- Decontamination of all equipment

Left site at 1840

October 26, 1994

Arrived at site at 0800

Lynn Shelton asked if Monteverde would rent an OVM to Giant for two days plus shipping and handling. I called Janet Kerley, President of Monteverde Inc. She said she would FED-X the unit to Giant overnight.

Decontamination of all equipment

LTA-03

0850- Began drilling

0940- Completed drilling

0110- Decontamination of all equipment

LTA-02

1020- Began drilling

1115- Completed drilling

1130- Decontamination of all equipment

1200- Took lunch in the field

LTA-10

1230- Began drilling

1335- Completed drilling

1340- Decontamination of all equipment

LTA-11

1400- Began drilling

1450- Completed drilling

1500- Completed decontamination of all equipment

LTA-13

1510- Filled rig up with water

1555- Began drilling

1630- Completed drilling

1650- Decontamination of all equipment

1730- Left site

October 27, 1994

Arrived at site at 0800
The OVM arrived at Ciniza, however Giant did no need it anymore because their equipment repairs were completed.

Decontamination of all equipment

LTA-12

0820- Began drilling

0840- Pulled rinsate sample from the split spoon at the 1.0 ft level.

0930- Pulled duplicate soil samples at the 20.0 ft and the 25.0 ft level.

0945- Completed drilling

1010- Decontamination of all equipment

LTA-14

1040- Began drilling

1120- Completed drilling

1140- Decontamination of all equipment

1220- Left site

ATTACHMENT B - CHAIN OF CUSTODY FORMS

AnalyticalTechnologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE 10-25-94 PAGE 3 OF 3

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: GIANT
ADDRESS: I-40 EXIT 39
JAMESTOWN, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO:
COMPANY: SAME
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM + LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA04ZOI 1.0	10-24		SOIL											X	X			X	X												
LTA04WTZ 2.6	10-24		SOIL											X	X			X	X												
LTA04WTZ 5.0	10-24		SOIL											X	X			X	X												
LTA04BTZ 10.0	10-24		SOIL															X	X												
LTA04BTZ 15.0	10-24		SOIL															X	X												
LTA04BTZ 20.0	10-24		SOIL															X	X												
LTA04BTZ 25.0	10-24		SOIL															X	X												

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	LTA CHARACTER	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	FEDEX	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: Lynn Shelton Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB)
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-25-94 PAGE 2 OF 3

ATI LAB ID

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PROJECT MANAGER:

COMPANY: GIANT REFINING CO.
ADDRESS: I40 EXIT 39
JAMESTOWN, NM 87347
PHONE: (505) 722- 3833
FAX: (505) 722-0210

BILL TO: LYNN SHELTON
COMPANY: GIANT
ADDRESS: RT 3 BOX M
GALLUP, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM + LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA 07 ZOI 1.0	10-24		SOIL											X	X			X	X												
LTA07 WTZ 3.0	10-24		SOIL											X	X			X	X												
LTA07 WTZ 5.0	10-24		SOIL											X	X			X	X												
LTA 07 BTZ 10.0	10-24		SOIL															X	X												
LTA 07 BTZ 15.0	10-24		SOIL															X	X												
LTA 07 BTZ 20.0	10-24		SOIL															X	X												
LTA 07 BTZ 25.0	10-24		SOIL															X	X												

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	LTA CHARACTER	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	FEDEX	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: Lynn Shelton Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220277	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB)
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE 10-25-94 PAGE 1 OF 2

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: GIANT REFINING CO.
ADDRESS: I40 EXIT 39
JAMESTOWN, NM 87347
PHONE: (505) 722-3833
FAX: (505) 722-0210

BILL TO: LYNN SHELTON
COMPANY: GIANT
ADDRESS: RT3 BOX 7
GALLUP, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM & LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA 08 ZOI 1.0	10-24		SOIL											X	X			X	X												
LTA 08 WTZ 3.0	10-24		SOIL											X	X			X	X												
LTA 08 WTZ 5.0	10-24		SOIL											X	X			X	X												
LTA 08 BTZ 10.0	10-24		SOIL															X	X												
LTA 08 BTZ 15.0	10-24		SOIL															X	X												
LTA 08 BTZ 20.0	10-24		SOIL															X	X												
LTA 08 BTZ 25.0	10-24		SOIL															X	X												

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	LTA CHARACTER	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	FEDEX	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: Lynn Shelton Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB)
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

FEDERAL EXPRESS

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER 24257665

2425766582

SENDER'S COPY

SENDER'S COPY

1 SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER: 1038-3762-6
Date: 10 25 94

From (Your Name) Please Print: Lynn Shelton
Your Phone Number (Very Important): (505) 722-3833
Company: Giant Refining
Department/Floor No.
Street Address: I-40, Exit 39
City: Jamestown
State: NM
ZIP Required: 87347

2 To (Recipient's Name) Please Print: Sample Control
Recipient's Phone Number: (505) 344-
Company: Analytical Technologies, Inc.
Departm
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 2109-D Pan American Freeway, NE
City: Albuquerque
State: NM
ZIP Required: 87107

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address
City
State
ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash/Check Acct./Credit Card No. Exp. Date /

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
11 [X] OTHER PACKAGING
16 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
51 [ ] OTHER PACKAGING
56 [ ] FEDEX LETTER*
52 [ ] FEDEX PAK*
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
30 [ ] ECONOMY*
* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 [ ] GOV'T LETTER
41 [ ] GOV'T PACKAGE

Freight Service (for packages over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT**
† Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 [ ] HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 [X] DELIVER WEEKDAY

Saturday Service
31 [ ] HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 [ ] SATURDAY PICK-UP (Extra charge)

Special Handling
4 [ ] DANGEROUS GOODS (Extra charge)
6 [ ] DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845 X kg. 904 III
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
Total	Total	Total

DIM SHIPMENT (Chargeable Weight)
[ ] lbs.
L x W x H

Received At
1 [ ] Regular Stop 3 [ ] Drop Box
2 [ ] On-Call Stop 4 [ ] B.S.C. 5 [ ] Station

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is $500.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

7 Release Signature:

Federal E
Base Charg
Declared Va
Other 1
Other 2
Total Charge

REVISION DAT
PART #1454
FORMAT #16

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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 1 OF 4

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 09 ZOI 1.0	10-25	900	SOIL											X	X			X	X													
LTA 09 WTZ 3.0	10-25	910	SOIL											X	X			X	X													
LTA 09 WTZ 5.0	10-25	945	SOIL											X	X			X	X													
LTA 09 BTZ 10.0	10-25	1000	SOIL															X	X													
LTA 09 BTZ 15.0	10-25	1005	SOIL															X	X													
LTA 09 BTZ 20.0	10-25	1015	SOIL															X	X													
LTA 09 BTZ 25.0	10-25	1030	SOIL															X	X													

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	LTA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	Fed Ex	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 10:10am	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE 10-26-94 PAGE 2 OF 4

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 05 ZOI 1.0	10-25	1115	SOIL											X	X			X	X														
LTA 05 WTZ 3.0	10-25	1115	SOIL											X	X			X	X														
LTA 05 WTZ 5.0	10-25	1124	SOIL											X	X			X	X														
LTA 05 BTZ 10.0	10-25	1133	SOIL															X	X														
LTA 05 BTZ 15.0	10-25	1140	SOIL															X	X														
LTA 05 BTZ 20.0	10-25	1149	SOIL															X	X														
LTA 05 BTZ 25.0	10-25	1154	SOIL															X	X														

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	LTA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	Fed Ex	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:50	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 3 OF 4

ATI LAB I.D.:

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PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 06 ZOI 1.0	10-25	1430	SOIL											X	X			X	X													
LTA 06 WTZ 3.0	10-25	1432	SOIL											X	X			X	X													
LTA 06 WTZ 5.0	10-25	1435	SOIL											X	X			X	X													
LTA 06 BTZ 10.0	10-25	1442	SOIL															X	X													
LTA 06 BTZ 15.0	10-25	1448	SOIL															X	X													
LTA 06 BTZ 20.0	10-25	1500	SOIL															X	X													
LTA 06 BTZ 25.0	10-25	1520	SOIL															X	X													

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	
RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:00	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 4 OF 4

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 01 ZOI 1.0	10-25	1600	SOIL											X	X			X	X													
LTA 01 WTZ 3.0	10-25	1600	SOIL											X	X			X	X													
LTA 01 WTZ 5.0	10-25	1610	SOIL											X	X			X	X													
LTA 01 BTZ 10.0	10-25	1615	SOIL															X	X													
LTA 01 BTZ 15.0	10-25	1640	SOIL															X	X													
LTA 01 BTZ 20.0	10-25	1651	SOIL															X	X													
LTA 01 BTZ 25.0	10-25	1700	SOIL															X	X													
LTA 01 BTZ 15.0D	10-25	1640	SOIL																X													
LTA 01 BTZ 25.0 B	10-25	1633	H_2O																X													

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME: LTA Character		CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA: Fed Ex		RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:00	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

A lytical**Technologies,**Inc., Albuquerque, NM
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C AIN OF CUSTODY

DATE: 10-27-94 PAGE 3 OF 4

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA 10 ZOI 1.0	10-26	1250	SOIL											X	X			X	X												
LTA 10 WTZ 3.0	10-26	1250	SOIL											X	X			X	X												
LTA 10 WTZ 5.0	10-26	1300	SOIL											X	X			X	X												
LTA 10 BTZ 10.0	10-26	1308	SOIL															X	X												
LTA 10 BTZ 15.0	10-26	1316	SOIL															X	X												
LTA 10 BTZ 20.0	10-26	1325	SOIL															X	X												
LTA 10 BTZ 25.0	10-26	1330	SOIL															X	X												

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	ITA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	Fed Ex	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: L Shelton Time: 10:00	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB)
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

CHAIN OF CUSTODY

/cal Technologies, Inc., Albuquerque, NM
• Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

D... 10 27 94 PAGE 1 OF 2

ATI LAB I.D.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA12 2OZ 1.0	10-27	0900	SOIL											X	X			X	X												
LTA12 WTZ 3.0	10-27	0900	SOIL											X	X			X	X												
LTA12 WTZ 5.0	10-27	0912	SOIL											X	X			X	X												
LTA12 BTZ 10.0	10-27	0922	SOIL															X	X												
LTA12 BTZ 15.0	10-27	0928	SOIL															X	X												
LTA12 BTZ 20.0	10-27	0945	SOIL															X	X												
LTA12 BTZ 25.0	10-27	0945	SOIL															X	X												
LTA12 2OZ 10 E	10 27	0908	SOIL											X																	
LTA12 BTZ 20.0	10-27	0945	SOIL																X												

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	
RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3
Signature: [illegible] Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: J SHELTON Date: 10 27 94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

AnalyticalTechnologies,Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 2 OF 2

ATI LAB ID

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
LTA 11 ZOI 1.0	10-26	1405	SOIL											X	X			X	X												
LTA 11 WTZ 3.0	10-26	1405	SOIL											X	X			X	X												
LTA 11 WTZ 5.0	10-26	1412	SOIL											X	X			X	X												
LTA 11 BTZ 10.0	10-26	1422	SOIL															X	X												
LTA 11 BTZ 15.0	10-26	1431	SOIL															X	X												
LTA 11 BTZ 20.0	10-26	1442	SOIL															X	X												
LTA 11 BTZ 25.0	10-26	1442	SOIL															X	X												
LTA 12 BTZ 25.0 D	10-27	1645	SOIL																X												

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME: ITA Character		CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA: Fed Ex		RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY:
Signature: L Shelton Time: 11:15	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB)
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 1 OF 1

ATI LAB I.D.:

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)
ITA 13 ZOI 1.0	*1609	—	SOIL											X	X			X	X												
ITA 13 WTZ 3.0	1609	→	SOIL											X	X			X	X												
ITA 13 WTZ 5.0	1619	—	SOIL											X	X			X	X												
ITA 13 BTZ 10.0	1626	→	SOIL															X	X												
ITA 13 BTZ 15.0	1630	→	SOIL															X	X												
ITA 13 BTZ 20.0	1645	→	SOIL															X	X												
ITA 13 BTZ 25.0	1645	→	SOIL															X	X												
ITA 13 BTZ 10.0 D	1626		SOIL																X												

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: ITA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	
RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

* [illegible] 10-26-94

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3
Signature: [illegible] Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: L. SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE 10-27-94 PAGE 1 OF 1

ATI LAB ID

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 14 ZOI 1.0	10-27	1042	SOIL											X	X			X	X													
LTA 14 WTZ 3.0	10-27	1042	SOIL											X	X			X	X													
LTA 14 WTZ 5.0	10-27	1052	SOIL											X	X			X	X													
LTA 14 BTZ 10.0	10-27	1101	SOIL															X	X													
LTA 14 BTZ 15.0	10-27	1109	SOIL															X	X													
LTA 14 BTZ 20.0	10-27	1121	SOIL															X	X													
LTA 14 BTZ 25.0	10-27	1121	SOIL															X	X													

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	ITA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	Fed Ex	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Shelton Time: 2:15	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7270227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

FEDERAL EXPRESS

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER 242576666

2425766663

SENDER'S COPY

SENDER'S COPY

1 SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER: 1038-3762-6
Date: 10-27-94

From (Your Name) Please Print: Lynn Shelton
Your Phone Number (Very Important): 505 722-3833
Company: Giant Refining
Department/Floor No.:
Street Address: I-40, Exit 39
City: Jamestown
State: NM
ZIP Required: 87347

2 To (Recipient's Name) Please Print: Sample Control
Recipient's Phone Number (Ve: 505 344-3777
Company: Analytical Technologies, Inc.
Department:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 2109-D Pan American Freeway, NE
City: Albuquerque
State: NM
ZIP Required: 87107

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address
City
State
ZIP Required

3 PAYMENT
1 [X] Bill Sender
2 [ ] Bill Recipient's FedEx Acct. No.
3 [ ] Bill 3rd Party FedEx Acct. No.
4 [ ] Bill Credit Card
5 [ ] Cash/Check
Acct./Credit Card No.
Exp. Date

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
11 [X] OTHER PACKAGING
16 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
51 [ ] OTHER PACKAGING
56 [ ] FEDEX LETTER*
52 [ ] FEDEX PAK*
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
30 [ ] ECONOMY*
* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 [ ] GOVT LETTER
41 [ ] GOVT PACKAGE

Freight Service (for packages over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT**
† Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 [ ] HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 [X] DELIVER WEEKDAY

Saturday Service
31 [ ] HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 [ ] SATURDAY PICK-UP (Extra charge)

Special Handling
4 [ ] DANGEROUS GOODS (Extra charge)
6 [ ] DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845, ____ X ____ kg. 904 III
[ ] DESCRIPTION
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
Total	Total	Total

DIM SHIPMENT (Chargeable Weight)
[ ] ____ lbs.
L x W x H

Received At
1 [ ] Regular Stop
2 [ ] On-Call Stop
3 [ ] Drop Box
4 [ ] B.S.C.
5 [ ] Station

7 Release Signature:

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is $500.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Federal Expr
Base Charges
Declared Value
Other 1
Other 2
Total Charges

REVISION DATE 4/
PART #145413 G
FORMAT #160
160

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CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 1 OF 4

ATI LAB I.D.:

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 02 ZOT 1.0	10-26	1027	SOIL											X	X			X	X													
LTA 02 WTZ 3.0	10-26	1027	SOIL											X	X			X	X													
LTA 02 WTZ 5.0	10-26	1035	SOIL											X	X			X	X													
LTA 02 BTZ 10.0	10-26	1041	SOIL															X	X													
LTA 02 BTZ 15.0	10-26	1052	SOIL															X	X													
LTA 02 BTZ 20.0	10-26	1102	SOIL															X	X													
LTA 02 BTZ 20.0	10-26	1112	SOIL															X	X													

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME:	ITA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA:	Fed Ex	RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature:	Time: 10:50	Signature:	Time:	Signature:	Time:
Printed Name: LSHELTON	Date: 10-27-94	Printed Name:	Date:	Printed Name:	Date:
Company: GIANT	Phone: 722 0227	Company:		Company:	

RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY:(LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:		Company:		Analytical Technologies, Inc.	

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 2 OF 4

ATI LAB ID: [redacted]

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
LTA 03 ZOT 1.0	10-26	0853	SOIL											X	X			X	X													
LTA 03 WTZ 3.0	10-26	0853	SOIL											X	X			X	X													
LTA 03 WTZ 5.0	10-26	0905	SOIL											X	X			X	X													
LTA 03 BTZ 10.0	10-26	0911	SOIL															X	X													
LTA 03 BTZ 15.0	10-26	0921	SOIL															X	X													
LTA 03 BTZ 20.0	10-26	0932	SOIL															X	X													
LTA 03 BTZ 25.0	10-26	0940	SOIL															X	X													

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	
RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☑ 2 WEEK

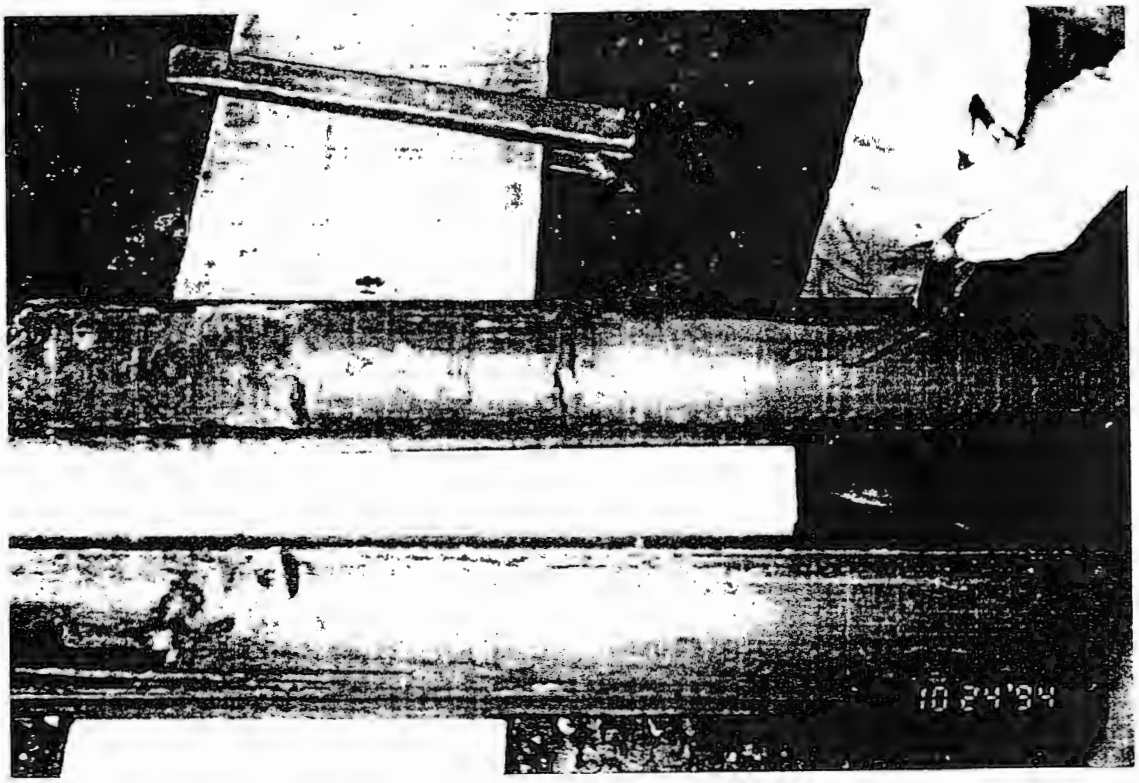
Comments:

SEE ATTACHED LISTS

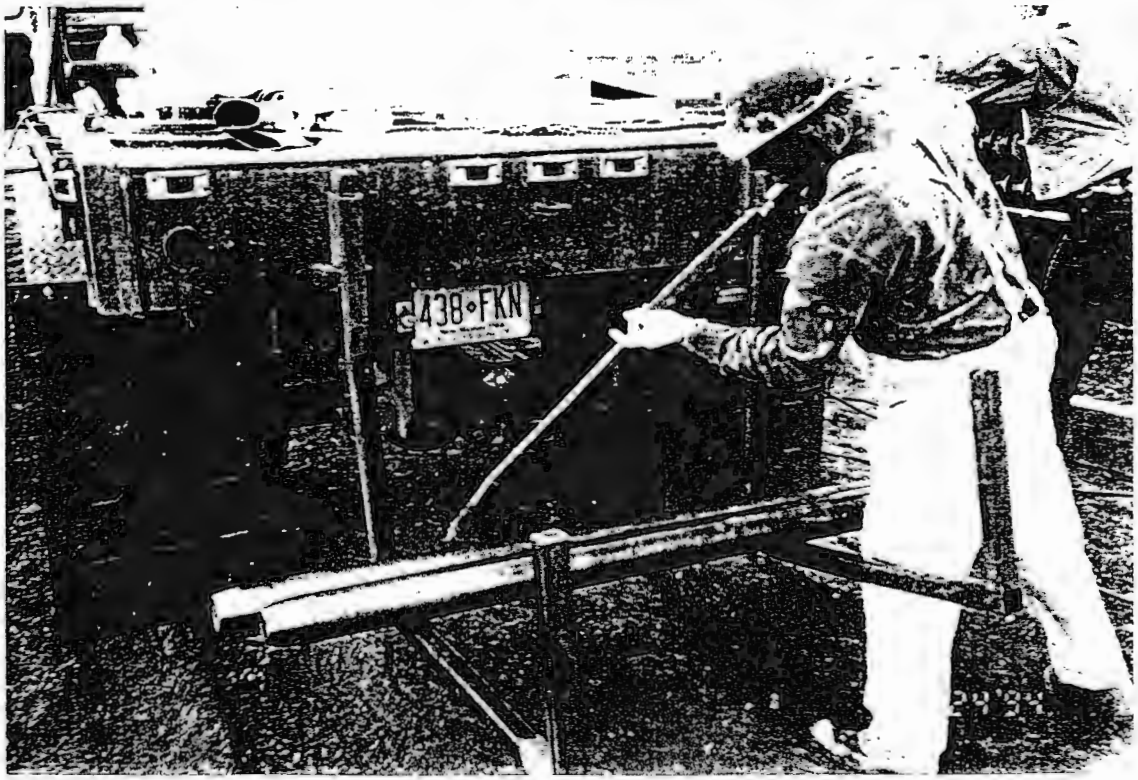
SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: 10-27-94	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10:00	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Analytical Technologies, Inc.

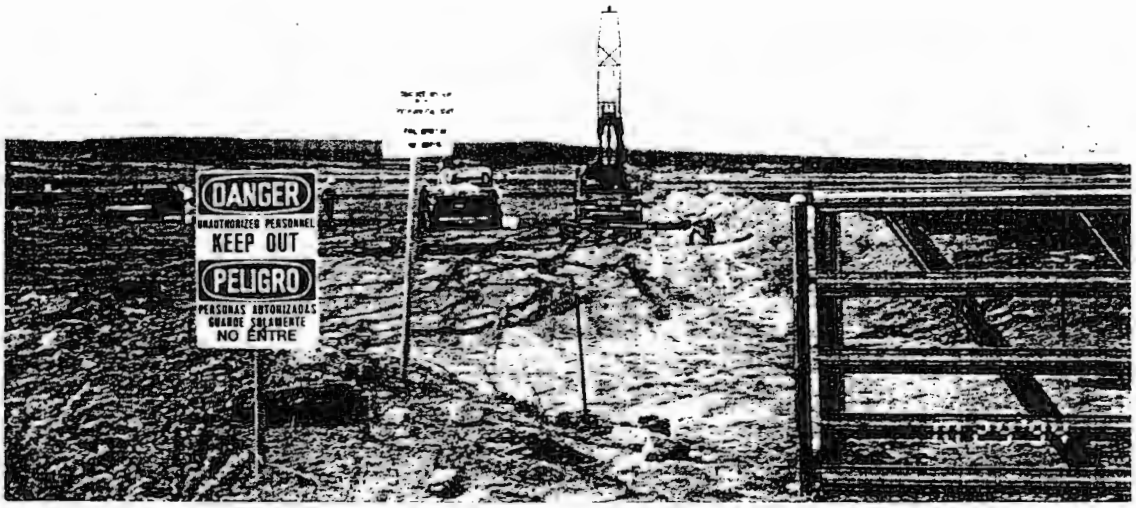
ATTACHMENT C - PHOTOGRAPHS OF FIELD ACTIVITIES



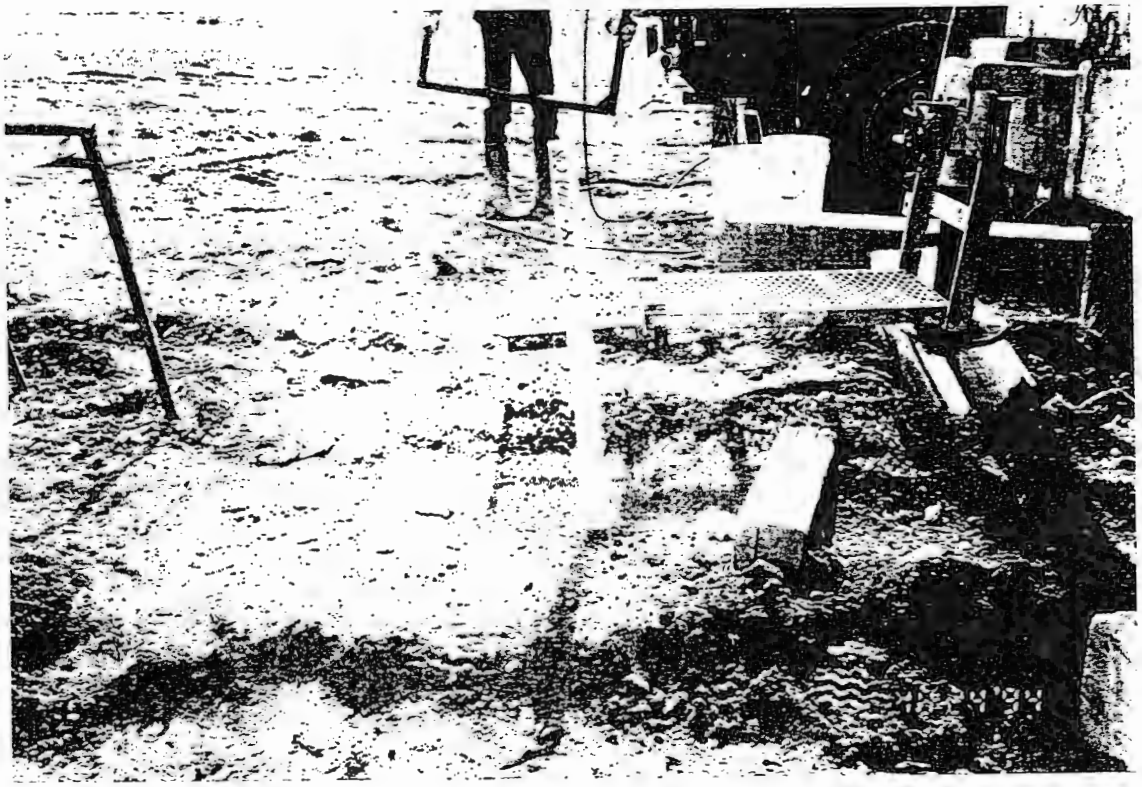
1. Demonstration of split spoon sampling and sample marker.



1. Demonstration of decontamination activities.



3. View of sampling location and drilling rig.



4. View of sampling location marker.

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA 01
PAGE: 1 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-1.7	//////////			**Zone of Intrusion**, **Clay**, scattered sulphur, wet, soft, black and brown(upper 9")	
	//////////			black at interface	
	//////////				
1.7-7.1	//////////	2.0		**Clay**, red brown, stiff, wet, root matter throughout, no odor	
	//////////				
	//////////				
	//////////				
	//////////				
	//////////				
	//////////	5.0			
	//////////				
	//////////				
	//////////				
7.1-7.9	///---///	7.0		**Clay**, silty, light red brown, moist, hard, root matter throughout	
	///---///				
7.9-9.8	//////////	8.0		**Clay**, red brown, blocky, hard, moist, slightly sandy near 10.0	
	//////////				
	//////////				
	////**///				
9.8-12.8	---///---	10		**Silt**, clayey, damp, hard, light brown, laminar, root matter throughout	
	---///---			sand seam(0.1") at 11.5-11.6	
	---///---				
	---///---				
	---///---				
	---///---				
12.8-14.2	*********	13		**Sand**, fine to medium, damp, red brown, dense	
	*********				
14.2-19.5	***///***	14		**Sand**, fine, clayey, moist to damp, dense, red brown, root matter weak, dry > 16.0	
	///				
	///	15			
	///				
	///				
	///				
	///				
	///				
	///				
	///				
19.5-20.5	---\\\---	19		**Silt**, clayey, blocky, hard, light brown, dry, laminar bedding	
	---\\\---				
20.5-21.1	***---***	20		**Sand**, fine, some silt, loose, dry, light brown	

21.1-23.8	///--**//	21		**Clay**, silty, sandy, hard, moist, light brown, silt in laminations	
	///--**//				
	///--**//	22			
	///--**//				
	///--**//				

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA01(cont)
PAGE: 2 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
23.8-26.1	////++/// ////++/// ////++/// ////++///	24		**Clay**, hard, brown, moist, blocky(fine), wear carbonate nodules	
26.1-26.7	---**//-- ---**//--	26		**Silt**, sandy, clayey, dense, light brown, damp	
26.7-28.0	********* *********	27		**Sand**, fine, dry, loose, light brown	
28.0-28.4	***///*** ***///***	28		**Sand**, clayey, very dense, orange red, moist	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA 02
PAGE: 3 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-1.6	////oo/// ////oo/// ////oo///			**Zone of Intrusion**, **Clay**, brown upper 13", dark brown/black, soft, wet, slightly altered fine gravel	
1.6-5.5	//////////	2.0		**Clay**, red brown, hard, wet, root matter throughout as filaments	
5.5-8.7	///--+/// ///--+/// ///--+/// ///--+/// ///--+/// ///--+/// ///--+///	5.5		**Clay**, slightly silty, blocky, hard, wet, red brown, root matter throughout, some scattered carbonate nodules	
8.7-10.3	---------	9.0		**Silt**, laminar, some sand lamanae, dense, dry to damp, light brown	
10.3-14.7	*********	10		**Sand**, fine to coarse, coarsing down, brown to brown red, very coarse at 14.5, dry dense	
14.7-15.3	///--////	15		**Clay**, slightly silty, dark brown, hard, moist	
15.3-17.9	///---/// ///---/// ///---/// ///---/// ///---///	16		**Clay**, silty, hard, brown, moist, some silt in laminar beds	
17.9-20.8	***---*** ***---*** ***---*** ***---*** ***---*** ***---***	18 20		**Sand**, very fine, silty, very dense, dry to damp, light brown, some root matter at 17.7	
20.8-24.3	***oo**** ***oo**** ***oo**** ***oo**** ***oo****	21 23		**Sand**, fine, loose, dry, light brown, scattered fine brown red gravel, somewhat laminar bedding	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4 HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA02(cont)
PAGE: 4 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
24.3-25.1	//////////	24		**Clay**, wet, stiff to hard, brown, gradational 7 inches above	
25.1-26.4	***///***	25		**Sand**, loose, some clay interbeds <1", orange, wet	
26.4-28.2	**********	26		**Sand**, loose, orange, medium, water bearing(weak), laminated bedding, CINIZA?	
	**********	28			
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA 03
PAGE: 5 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.9	/////////			**Zone of Intrusion, Clay**, soft, wet, dark brown to blk	
0.9-5.2	/////////	1.0		**Clay**, stiff to hard, wet, red brown, root matter throughout	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
5.2-7.2	///---///	5.0		**Clay**, silty, hard, moist to wet, red brown, root matter throughout, blocky	
	///---///				
	///---///				
	///---///				
7.2-8.6	/////////	7.0		**Clay**, hard, brown red, wet, root matter throughout	
	/////////				
	/////////				
	/////////				
8.6-9.8	----//---	9.0		**Silt**, slightly clayey, silt laminated, light brown, hard, slightly blocky, moist	
	----//---				
9.8-11.8	***---***	10		**Sand**, fine, silty, dense, moist, light brown, some silt laminations	

11.8-12.6	*********	12		**Sand**, fine, loose, damp, brown red	
	*********				
12.6-13.1	***///***	13		**Sand**, clayey, hard, moist, brown red	
13.1-14.3	///***///			**Clay**, sandy, hard, moist, brown red	
14.3-15.2	***--/***	14		**Sand**, slightly clayey, silty, light brown, dense, damp	
	--/				
15.2-15.9	----*----	15		**Silt**, very slightly sandy, hard, dry, light brown, laminar	
	----*----				
15.9-18.9	*********	16		**Sand**, fine, some medium, loose, dry, light brown, slightly clayey from 16.5-16.8	
	****//***				
	*********				
	*********				
	*********				
	*********				
18.9-22.1	***--//**	19		**Sand**, fine, silty, clayey, dense, dry, light brown laminar structure, grades sandier downward, significant root matter at 21.5	
	***--//**				
	***--//**	20			
	***--//**				
	***--//**				
	***--//**				
22.1-22.6	---------	22		**Silt**, laminar, hard, dry, light brown	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA03(cont)
PAGE: 6 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
22.6-22.8		22		Sand, fine, loose, dry, light brown	
22.8-23.2				Silt, laminar, hard, moist, light brown	
23.2-24.1		23		Clay, very hard, wet, brown	
24.1-24.9		24		Clay, sandy, brown red, moist, hard	
24.9-25.2		25		Sand, fine to coarse, dense, moist, brown red	
25.2-25.8				Silt, hard, dry, light brown	
25.8-26.1		26		Sand, orange brown, loose, dry	
26.1-26.7				Silt, laminar, dense, dry, light brown	
26.7-27.9		27		Sand, fine, light brown, laminated, dry	
27.9-28.3		28		Clay, silty, laminar, blocky structure, some sand, moist, brown, some root matter	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA 04
PAGE: 7 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-1.15	///**--//			**Zone of Intrusion, Clay**, sandy, silty, dark brown, soft	
1.15-2.5		1.0		displaced sample, no log	
		2.0			
2.5-8.2	///--**//			**Clay**, silty, sandy in thin partings, hard, moist, some root matter throughout	
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//	5.0			
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
8.2-9.4	---***---	8.0		**Silt**, sandy, gradational above, moist to damp, dense	
	---***---				
9.4-9.7	*********	9.0		**Sand**, fine, dry, light brown, loose	
9.7-10.8	---***---			**Silt**, sandy, dry, light brown, dense	
	---***---	10			
	---***---				
10.8-12.1	***///***	11		**Sand**, clayey, moist, brown, dense	
	///				
12.1-13.8	/////////	12		**Clay**, moist, hard, brown, blocky fine	
	/////////				
	/////////	13			
	/////////				
13.8-15.0	---***---	14		**Gradational to Silt**, sandy, dry, light brown, dense, laminar bedding	
	---***---				
15.0-18.0	*********	15		**Sand**, fine, dry, light brown, loose	
	*********				
	*********				
	*********				
	*********				
	*********				
18.0-18.5	///***///	18		**Clay**, sandy, damp, hard, brown	
18.5-19.5				displaced sample	
		19			
19.5-20.0	///***--/			**Clay**, very sandy, laminar silty interbeds, dense, moist	
20.0-22.2	*********	20		**Sand**, fine, dense dry, light brown	
	*********				
	*********				
	*********				
22.2-22.9	---------	22		**Silt**, laminar, dry, dense, light brown	

22.9-23.5	/////////	23		**Clay**, massive, brown, hard, wet	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA04(cont)
PAGE: 8 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
	//////////	23			
23.5-25.3	///***/// ///***/// ///***///			**Clay**, sandy, brown, stiff, wet, laminar sands wetting clay by capillary action	
25.3-26.3	///***/// ///***///	25		**Sand**, clayey, loose, wet, light brown	
26.3-27.3	///***/// ///***///	26		**Clay**, sandy, soft, wet, brown	
27.3-28.4	///***/// ///***/// ///***///	27		**Sand**, clayey, loose, wet, water bearing in 1" zones that are more silty, light brown, some thin clay zones (1.5") that are brown	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA 05
PAGE: 9 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.4	/////////			**Zone of Intrusion, Clay**, soft, dark brown and black, stiff, wet	
0.4-7.5	/////////	1.0		**Clay**, hard, red brown, wet, root matter throughout, slightly sandy at 4.5-7.8	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	////**///				
	////**///	5.0			
	////**///				
	////**///				
	////**///				
	////**///	7.0			
7.5-11.1	////*////			**Clay**, very silty, light brown, moist, very slightly sandy, hard, some root matter	
	////*////				
	////*////				
	////*////				
	////*////				
	////*////	10			
	////*////				
11.1-11.6	*********	11		**Sand**, fine, loose, moist, red brown	
11.6-16.9	////++///			**Clay**, hard, wet, red brown, some carbonate crystals scattered, some root matter, siltier at 14.9	
	////++///				
	////++///				
	////++///				
	////++///				
	////++///				
	////++///				
	///++--//	15			
	///++--//				
	///++--//				
	///++--//				
16.9-19.1	***////**	17		**Sand**, clayey, dense, moist, light brown	
	***////**				
	***////**				
	***////**				
19.1-22.3	***OO****	19		**Sand**, fine, scattered fine gravel, light brown, dry, dense, laminar bedded	
	OO*				
	OO*	20			
	OO*				
	OO*	21			
	OO*				
22.3-24.8	//**--*//	22		**Clay**, sandy, silty, hard, soft at 24.4-24.8, wet, brown	
	//**--*//				
	//**--*//	23			

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA05(cont)
PAGE: 10 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
	//**--///				
	//**--///	24			
24.8-25.6	*********			Sand, loose, orange, moist	
	*********	25			
	*********				
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

PROJECT: GIANT LTA CHARACTERIZATION

LOG OF TEST BORINGS

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA 06
PAGE: 11 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-2.6	///00////	1.0 / 2.0		**Zone of Intrusion**, **Clay**, black, rust brown mottling, scattered gravel, heavy odor soft, wet	
2.6-9.5	/////////	5.0		**Clay**, blocky structure, root matter throughout, joint has black infilling with no odor, does not continue to 20 feet, red brown	
9.5-10.2	***////**	9.0		**Sand**, very clayey, dense, moist, red brown	
10.2-12.7	---////-- / *********	10 / 12		**Silt**, clayey, laminar slightly clayey, hard, moist to damp, light brown root matter throughout, 0.2 sand lense at 11.3-11.5	
12.7-14.1	*********			**Sand**, fine, dense, damp, medium, red brown	
14.1-15.7	///****//	14 / 15		**Clay**, sandy, red brown, hard, moist	
15.7-18.2	/////////			**Clay**, hard, moist, red brown, root matter throughout, blocky	
18.2-22.3	//--**///	18 / 20		**Clay**, silty, sandy, blocky, brown, hard, moist, silt is laminated	
22.3-23.8	/////////	22		**Clay**, hard, wet, blocky, red brown, some weak root matter	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA06(cont)
PAGE: 12 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
	/////////	23			
23.8-24.6	//--++/// //--++///	24		**Clay**, silty, carbonate nodules scattered, as stain, hard, moist, red brown white mottling	
24.6-25.1	*********			**Sand**, fine, damp, loose, brown	
25.1-25.6	---------	25		**Silt**, dry, soft, brown	
25.6-26.2	*********			**Sand**, orange, dry, loose (QE)	
26.2-27.1	///---/// ///---///	26		**Clay**, silty, brown, stiff, moist	
27.1-28.0	********* *********	27		**Sand**, fine, orange, loose, dry (QE)	
28.0-29.0	---///--- ---///--- ---///---	28		**Silt**, clayey, orange brown, hard, damp	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA 07
PAGE: 13 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-1.4	///---/// ///---///	 1.0		**Zone of Intrusion**, **Clay**, dark brown, silty, wet, sulphur in top 6", some rusty mottling	
1.4-9.9	////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ////--/// ///--*/// ///--*/// ////--/// ////--/// ////--///	 5.0 9.0		**Clay**, slightly silty, red brown, stiff to firm, wet, fine blocky slightly sandy at 7.1-7.4, moist below 6.5, hard>7'	
9.9-10.1	//----/// //----///	10		**Clay**, very silty, light red brown, damp to moist, hard, decomposed root matter at 7.5-8.0, root fibers throughout	
10.1-11.3	---///---	11		**Silt**, clayey and clay, silty interbeds, hard, moist to damp, light brown	
11.3-12.0	//**--///			**Clay**, sandy, silty, hard, moist, light brown	
12.0-13.1	***---*** ***---***	12		**Sand**, silty, loose, light brown, moderately dense	
13.1-15.1	***--//** ***--//** ***--//** ***--//**	13		**Sand** fine, interbedded, silt, silty clay, light brown, damp, some root matter throughout, predominately fine sand (70%)	
15.1-19.0	///***/// ///***/// ///***/// ///***/// ///***/// ///***/// ///***/// ///***///	15		**Clay**, slightly sandy to sandy, light brown	
19.0-20.3	---///--- ---///---	19		**Silt**, clayey, light brown, damp, hard silt partings	
20.3-20.6	*********	20		**Sand** fine, loose, damp, light brown	
20.6-21.8	---***//- ---***//-	 21		**Silt**, sandy, some clay, dense, damp, light brown	
21.8-23.1	***---//* ***---//* ***---//*			**Sand** fine, silty, clayey, dense, light brown	
23.1-25.0	//////////	23		**Clay**, hard, brown, moist to wet	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA07(cont)
PAGE: 14 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
	///////// ///////// /////////				
25.0-25.9	///---/// ///---///	25		Clay, silty, hard, moist, light brown	
25.9-26.3	*********	26		Sand, fine, dense, light brown, dry	
26.3-26.6	---***/--			Silt, sandy, light brown, some clay, dense, dry	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA 08
PAGE: 15 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-1.25	///---///			**Zone of Intrusion**, **Clay**, silty, dark brown, wet, soft, scattered gravel	
	///---///	1.0			
1.25-9.0	/////////			**Clay**, stiff to dense, wet, red brown, fine blocky	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////	5.0			
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
9.0-9.9	---///---	9.0		**Silt**, gradational contact, clayey, moist, dense, fine blocky	
	---///---				
9.9-10.7	***---***	10		**Sand**, silty, arkosic, fine, damp, dense, grades back to silt at 10.3	
10.7-14.3	***OO****			**Sand**, fine to medium, damp, dense, light red brown, scattered fine gravel	
	OO*				
	OO*				
	OO*				
	OO*				
	OO*				
	OO*				
14.3-16.3	///--**//	14		**Clay**, silty, moist, hard, blocky, red brown, some cracking infilled with	
	///--**//			fine sand	
	///--**//	15			
	///--**//				
16.3-17.2	---***---	16		**Silt**, fine sandy, dense, moist to damp, light brown, some carbonate specs	
	---***---				
17.2-18.3	***---***	17		**Sand**, fine, silty, dense, damp, red brown	

18.3-22.4	*********	18		**Sand**, fine, light brown, dense, damp to dry, loose in sampler, grades silty	
	*********			below 21'	
	*********				
	*********				
	*********	20			
	*********				
	*********				
	***----**				
	***----**				
22.4-25.4	///---///	22		**Clay**, silty partings, fine blocky, damp to moist, hard, some sulfate crystals	
	///---///				

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-24-94
STATIC WATER:
BORING ID: LTA08(cont)
PAGE: 16 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
25.4-25.9	*********			**Sand**, fine, dense, dry, light brown	
25.9-27.9	///---/// ///---/// ///---/// ///---///	26		**Clay**, dense, some charcoal pieces(flecks), silt partings, dark brown, damp	
27.9-28.5	********* *********	28		**Sand**, fine, orange, dry, loose	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA 09
PAGE: 17 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.5	/////////			**Disturbed Native Material**	
0.5-4.5	/////////	1.0		**Clay**, stiff to hard, wet, red brown	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
4.5-6.3	///---///			**Clay**, silty, hard, moist, red brown, root material	
	///---///	5.0			
	///---///				
	///---///	6.0			
6.3-7.8	/////////			**Clay**, hard, moist, red brown, root material	
	/////////				
	/////////				
7.8-8.2	///***///	8.0		**Clay**, very fine sandy, brown, hard, moist	
8.2-10.8	***///-**			**Sand**, clayey, some clean fine sand stringers, some silt stringers	
	***///-**				
	***///-**				
	***///-**	10			
	***///-**				
10.8-12.1	***OO****	11		**Sand**, fine, loose, some scattered rock(3"), light brown, damp	
	OO*				
12.1-12.7	///***///	12		**Clay**, sandy, hard, brown, moist	
	///***///				
12.7-13.8	***///***	13		**Sand**, clayey, dense, brown, moist	
	///				
13.8-15.9	*********	14		**Sand**, medium, moderately dense, red brown, damp	
	*********				
	*********	15			
	*********				
15.9-18.2	*********	16		**Sand**, fine, loose, light brown, dry	
	*********				
	*********				
	*********				
18.2-19.6	---///---	18		**Silt**, clayey, light brown, hard, damp	
	---///---				
	---///---	19			
19.6-20.3	*********			**Sand**, fine to medium, moderately dense, dry, light brown, some charcoal at 20.2	
	*********	20			
20.3-21.9	**---//*			**Sand**, very silty, clayey, light brown, moist, dense	
	**---//*				
	**---//*				
21.9-22.3	///***///	22		**Clay**, sandy, brown, hard, moist	
22.3-24.0	/////////			**Clay**, hard, brown, moist	
	/////////				

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-25-94
STATIC WATER:
BORING ID: LTA09(cont)
PAGE: 18 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
24.0-25.2	///***///	24		Clay, sandy, soft, dark brown, wet	
	///***///				
	///***///	25			
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA 10
PAGE: 19 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.4	/////////			**Clay**, wet, soft, dark brown	
0.5-5.4	/////////	1.0		**Clay**, red brown, hard, wet, some root material throughout	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////	5.0			
5.4-7.4	////**///			**Clay**, slightly sandy, red brown, wet, stiff	
	////**///				
	////**///				
	////**///	7.0			
7.4-9.3	***///***			**Sand**, clayey, grades to sand, fine in 0-4', dense, moist, brown and red brown	
	///				
	///				
9.3-11.9	***//****	9.0		**Sand**, medium, slightly clayey, red brown, dense, moist	
	//*				
	//*	10			
	//*				
	//*				
	//*				
11.9-13.0	/////////	12		**Clay**, hard, brown, blocky, moist	
	/////////				
13.0-15.0	//**---//	13		**Clay**, fine sandy, very silty, brown, blocky, moist	
	//**---//				
	//**---//				
	//**---//				
15.0-16.3	---///---	15		**Silt**, clayey, hard, brown, moist	
	---///---				
16.3-19.2	///---///	16		**Clay**, silty, hard, brown, moist	
	///---///				
	///---///				
	///---///				
	///---///				
	///---///				
19.2-22.4	///**++//	19		**Clay**, fine sandy, hard, brown, moist, some carbonate nodules(as crystals),	
	///**++//			slightly more silt at 22.1(laminar)	
	///**++//	20			
	//**+-///				
22.4-23.3	*********	22		**Sand**, fine, damp, dense, light brown	
	*********				
	*********	23			
23.3-24.8	---///---			**Silt**, clayey, dense, blocky, laminar, moist, light brown	
	---///---	24			

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA10(cont)
PAGE: 20 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
24.8-25.5	***--**** ***--**** ***--****	25		**Sand**, orange, dense, damp, Qe, slightly silty	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA 11
PAGE: 21 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.3	/////////			**Zone of Intrusion**, mainly surface disturbance, **Clay**, brown, soft, wet	
0.3-7.7	/////////	1.0		**Clay**, red brown, hard, wet, root matter throughout, color brighter red>5' and drier(moist), fine blocky	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////	5.0			
	/////////				
	/////////				
	/////////				
	/////////	7.0			
7.7-9.0	***---***			**Sand**, silty, red brown, dense, damp	
	---	8.0			

9.0-9.6	---***---	9.0		**Silt**, sandy, light brown, dense, dry	
9.6-11.6	*********			**Sand**, fine, light red brown, dense, dry, root matter	
	*********	10			
	*********				
	*********	11			
11.6-13.2	///****//			**Clay**, very sandy, brown red, hard, moist, root matter	
	///****//				
	///****//				
13.2-17.4	////++///	13		**Clay**, very hard, brown, wet, some root matter, some carbonate nodules (no crystals) >15'	
	////++///				
	////++///				
	////++///				
	////++///	15			
	/////////				
	/////////				
	/////////				
	/////////	17			
17.4-20.2	///--**//			**Clay**, slightly silty, slightly sandy, very hard, moist, brown, occasional charcoal	
	///--**//				
	///--**//				
	///--**//				
	///--**//				
20.2-20.9	/////////	20		**Clay**, very hard, brown, wet, root matter	
	/////////				
20.9-21.7	//***+///	21		**Clay**, sandy, hard, brown, moist, carbonate nodules occasional	
21.7-22.8	---//++--			**Silt**, clayey, laminar, light brown, moist, carbonate nodules occasional, root matter, hard	
	---//++--	22			
	---//++--				
22.8-23.4	///---///	23		**Clay**, silty, laminar, light brown, moist, hard	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA11(cont)
PAGE: 22 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
23.4-24.3	**----*** **----***	24		**Sand**, very silty, light brown, dry, dense	
24.3-24.8	///---///			**Clay**, silty, brown, laminar, moist, hard	
24.8-25.5	********* *********	25		**Sand**, orange, fine, dry, dense, Qe	
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-27-94
STATIC WATER:
BORING ID: LTA 12
PAGE: 23 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.2	/////////			**Zone of Intrusion, Clay**, soft, wet, brown	
0.2-8.7	////+////	1.0		**Clay**, red brown, stiff to hard, weak carbonate nodules, wet, blocky, root matter	
	////+////			throughout, some slightly silty zones >5'	
	////+////				
	////+////				
	////+////				
	////+////				
	////+////				
	////+////				
	////+////	5.0			
	////+--//				
	////+--//				
	////+--//				
	////+--//				
	////+--//				
	////+--//	8.0			
8.7-9.5	///---///			**Clay**, silty, hard, brown, moist, root matter, laminar weakly	
	///---///	9.0			
9.5-10.2	***///***			**Sand**, clayey, dense, light brown to red brown, moist	
10.2-12.0	*********	10		**Sand**, fine, damp, dense, light brown to red brown, medium sand at 11.7-12.0	
	*********				
	*********				
	*********				
12.0-13.2	///**--//	12		**Clay**, sandy, silty, hard, blocky, moist, brown red	
	///**--//				
13.2-20.6	///**-///	13		**Clay**, hard, moist, brown, occasional very fine sand, streaks as joint filling	
	///**-///			some weak root matter, slightly more silt at 19.6-20.2	
	///**-///				
	///**-///				
	///**-///	15			
	///**-///				
	///**-///				
	///**-///				
	///**-///				
	///**-///				
	///**-///				
	///**-///				
	///**-///				
	///**--//				
	///**--//	20			
20.6-21.1	---///---			**Silt**, clayey, dense, light brown, moist	
21.1-23.7	////+////	21		**Clay**, hard, brown, some weak carbonate nodules, wet	
	////+////				
	////+////	22			
	////+////				
	////+////	23			

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-27-94
STATIC WATER:
BORING ID: LTA12(cont)
PAGE: 24 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
23.7-25.4	///---+//			**Clay**, silty, silt in lamanae, some weak carbonate nodules, slightly fine sandy	
	///---+//	24		>24.5, very fine sand in tip(<1")	
	///---+//				
	//--**+//	25			
	//--**+//				
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA 13
PAGE: 25 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.3	///***///			**Zone of Intrusion, Clay**, sandy, brown, soft, wet	
0.3-7.7	/////////	1.0		**Clay**, hard, red brown, blocky, wet, root matter throughout, weak scattered charcoal	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////				
	/////////	5.0			
	/////////				
	/////////				
	/////////				
	/////////	7.0			
7.7-8.2	///***///			**Clay**, sandy, brown, blocky, hard, wet-moist	
8.2-9.8	***--//**	8.0		**Sand**, very fine, silty, clayey, dense, dry-damp, light brown	
	***--//**				
	***--//**				
9.8-10.4	*********			**Sand**, fine, loose, dry, dense, root matter	
	*********	10			
10.4-10.9	///***///			**Clay**, sandy, hard, moist, brown red, root matter	
10.9-12.0	*********	11		**Sand**, dense, fine, damp, root matter, some medium sand	
	*********				
12.0-12.6	---///---	12		**Silt**, clayey, hard, damp, dark brown	
12.6-15.6	/////////			**Clay**, hard, slightly blocky, wet, brown	
	/////////				
	/////////				
	/////////				
	/////////				
	/////////	15			
15.6-20.4	//---*+//			**Clay**, silty, hard, blocky, moist, weak carbonate grains, some sandy-clay zones	
	//---*+//			included (3" each)	
	//---*+//				
	//---*+//				
	//---*+//				
	//---*+//				
	//---*+//				
	//---*+//				
	//---*+//				
	//---*+//	20			
20.4-22.8	////+////			**Clay**, hard, brown, wet, blocky, some scattered carbonate nodules weak	
	////+////				
	////+////				
	////+////				
	////+////				
22.8-24.1	//----+//	23		**Clay**, very silty, light brown, moist, hard, weak carbonate nodules common, laminar	

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-26-94
STATIC WATER:
BORING ID: LTA13(cont)
PAGE: 26 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
24.1-24.7	///****//	24		**Clay**, very sandy, light brown, hard, dry	
24.7-25.5	*********			**Sand**, orange, dense, damp, Qe	
	*********	25			
	*********				
TD					

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-27-94
STATIC WATER:
BORING ID: LTA 14
PAGE: 27 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
0-0.2	/////////			**Zone of Intrusion, Clay, very soft, wet, brown**	
0.2-2.9	/////////	1.0		**Clay**, red brown, stiff to hard, wet, root matter	
	/////////				
	/////////				
	/////////				
2.9-6.6	///---///	3.0		**Clay**, silty, hard, moist, light red brown, root matter, slightly more sandy	
	///---///			at 5.0, charcoal at 6.0	
	///---///				
	///---///				
	///--*///	5.0			
	///--*///				
	///--*///	6.0			
6.6-7.8	---///**-			**Silt**, clayey, slightly sandy, hard, moist, light brown, root matter	
	---///**-	7.0			
7.8-8.3	*********			**Sand**, fine, loose, dry, light brown	
	*********	8.0			
8.3-9.7	///****//			**Clay**, very sandy, hard, moist, brown, some zones have more clay (about 40%)	
	///****//	9.0		and show laminar banding	
9.7-10.6	*****OO**			**Sand**, coarse, red brown, dense, moist, pebbly	
	*****OO**	10			
10.6-11.7	*****OO**			**Sand**, fine to coarse, pebbly, dense, brown, moist	
	*****OO**				
11.7-12.4	///---///			**Clay**, silty, hard, moist, brown	
	///---///	12			
12.4-15.0	/////////			**Clay**, hard, brown, moist, root matter in joints, joints show slickensidedness	
	/////////			slightly sandy at 15.0	
	/////////				
	/////////				
	////*////				
15.0-20.0	///--**//	15		**Clay**, silty, sandy, generally laminar except where sand dominates silt, damp to dry	
	///--**//			hard, light brown, all contacts gradational	
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
	///--**//				
20.0-20.7	***---***	20		**Sand**, fine, loose, damp, light brown, grades to silt (laminar), hard	
20.7-22.8	////++///			**Clay**, hard, moist, brown, weak carbonate nodules, some root matter in joints	
	////++///	21		joints weakly defined	
	////++///				
	////++///				
22.8-23.7	////---//			**Clay**, silty, laminar, hard, moist	
	////---//	23			

LOGGED BY: WHK

SIZE AND TYPE OF BORING: 4 1/4" HSA

PRECISION ENGINEERING, INC.

LOG OF TEST BORINGS

PROJECT: GIANT LTA CHARACTERIZATION

FILE #: 94-157
ELEVATION:
TOTAL DEPTH:
LOGGED BY: WHK
DATE: 10-27-94
STATIC WATER:
BORING ID: LTA14(cont)
PAGE: 28 of 28

DEPTH	PLOT	SCALE	SAMPLE	MATERIAL CHARACTERISTICS (MOISTURE,CONDITION,COLOR,GRAINSIZE,ETC.)	PID (ppm)
23.7-25.0	*********			**Sand**, fine, very light brown, no orange stain, slightly laminar, dense, dry	
	*********	24			
	*********				
25.0-25.5	///***///	25		**Clay**, sandy, hard, moist, light brown	
	///***///				
TD					

LOGGED BY: WHK

IZE AND TYPE OF BORING: 4 1/4" HSA

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

GENERAL CHEMISTRY

Parameter	Units	01 ZOI 1.0	01 WTZ 3.0	01 WTZ 5.0	02 ZOI 1.0	02 WTZ 3.0	02 WTZ 5.0	03 ZOI 1.0	03 WTZ 3.0	03 WTZ 5.0	04 ZOI 1.0
% Moisture	%	20.4	18.6	15.3	15.3	15.0	14.6	20.5	15.9	13.2	21
Oil & Grease	mg/kg	3100	<20	<20	6200	<20	<20	470	<20	<20	6900
pH	Units	7.90	8.00	8.50	8.00	8.40	8.40	7.70	8.30	8.10	7.50
Kjeldahl Nitrogen	mg/kg	910	270	210	370	200	330	540	120	82	190
Total Phosphorus	mg/kg	130	180	310	140	180	300	170	180	330	180

Parameter	Units	04 WTZ 2.6	04 WTZ 5.0	05 ZOI 1.0	05 WTZ 3.0	05 WTZ 5.0	06 ZOI 1.0	06 WTZ 3.0	06 WTZ 5.0	07 ZOI 1.0	07 WTZ 3.0
% Moisture	%	15.6	14.3	23.1	14	13.7	20	17.6	13.7	20.2	16.1
Oil & Grease	mg/kg	<20	<20	160	<20	<20	13000	130	<20	9900	<20
pH	Units	8.50	8.50	7.80	8.60	8.40	8.10	8.20	8.60	7.60	8.40
Kjeldahl Nitrogen	mg/kg	220	140	260	210	180	180	200	210	200	140
Total Phosphorus	mg/kg	170	340	170	170	200	220	230	230	240	200

Parameter	Units	07 WTZ 5.0	08 ZOI 1.0	08 WTZ 3.0	08 WTZ 5.0	O9 ZOI 1.0	09 WTZ 3.0	09 WTZ 5.0	10 ZOI 1.0	10 WTZ 3.0	10 WTZ 5.0
% Moisture	%	13.9	18.6	15.5	15.2	21.7	15.9	14.3	23.9	18.9	17
Oil & Grease	mg/kg	<20	12000	<20	<20	<20	<20	<20	350	<20	<20
pH	Units	8.50	7.70	8.40	8.40	8.20	8.40	8.40	8.00	8.00	7.80
Kjeldahl Nitrogen	mg/kg	130	230	92	78	300	160	180	130	130	450
Total Phosphorus	mg/kg	260	180	230	200	170	170	310	190	250	160

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

GENERAL CHEMISTRY

Parameter	Units	11 ZOI 1.0	11 WTZ 3.0	11 WTZ 5.0	12 ZOI 1.0	12 WTZ 3.0	12 WTZ 5.0	13 ZOI 1.0	13 WTZ 3.0	13 WTZ 5.0	14 ZOI 1.0
% Moisture	%	20.1	19.4	14.5	21.1	17.5	13.3	18.9	19.2	18	18.8
Oil & Grease	mg/kg	<20	<20	<20	<20	<20	<20	100	<20	<20	<20
pH	Units	8.40	8.60	8.90	8.50	8.50	9.10	8.30	8.50	8.50	8.80
Kjeldahl Nitrogen	mg/kg	380	260	120	160	140	99	400	300	420	400
Total Phosphorus	mg/kg	170	220	280	170	190	220	180	220	220	150

Parameter	Units	14 WTZ 3.0	14 WTZ 5.0
% Moisture	%	14.2	12.5
Oil & Grease	mg/kg	<20	<20
pH	Units	8.80	9.20
Kjeldahl Nitrogen	mg/kg	300	320
Total Phosphorus	mg/kg	240	190

LTA CHARACTERIZATION GIANT – CINIZA

October 1994

METALS

Parameter	Units	01 ZOI 1.0	01 WTZ 3.0	01 WTZ 5.0	02 ZOI 1.0	02 WTZ 3.0	02 WTZ 5.0	03 ZOI 1.0	03 WTZ 3.0	03 WTZ 5.0	04 ZOI 1.0
Chromium	mg/kg	1.8	3.4	3.1	127	2.4	2.2	6.4	2.2	1.6	158
Lead	mg/kg	8	8	7	54	9	9	8	9	7	63

Parameter	Units	04 WTZ 2.6	04 WTZ 5.0	05 ZOI 1.0	05 WTZ 3.0	05 WTZ 5.0	06 ZOI 1.0	06 WTZ 3.0	06 WTZ 5.0	07 ZOI 1.0	07 WTZ 3.0
Chromium	mg/kg	2.6	2.6	4.7	4.3	6.8	339	6.8	3.1	341	3.2
Lead	mg/kg	7	<5	6	10	11	55	7	7	54	<5

Parameter	Units	07 WTZ 5.0	08 ZOI 1.0	08 WTZ 3.0	08 WTZ 5.0	O9 ZOI 1.0	09 WTZ 3.0	09 WTZ 5.0	10 ZOI 1.0	10 WTZ 3.0	10 WTZ 5.0
Chromium	mg/kg	3.2	234	6	8.5	1.8	3.4	3.1	7.2	3	2.1
Lead	mg/kg	6	76	6	6	8	8	7	10	5	7

Parameter	Units	11 ZOI 1.0	11 WTZ 3.0	11 WTZ 5.0	12 ZOI 1.0	12 WTZ 3.0	12 WTZ 5.0	13 ZOI 1.0	13 WTZ 3.0	13 WTZ 5.0	14 ZOI 1.0
Chromium	mg/kg	6.1	4.5	4.9	3.4	2.7	3.4	1.9	2.9	3	8.2
Lead	mg/kg	10	9	9	10	8	8	7	7	8	11

Parameter	Units	14 WTZ 3.0	14 WTZ 5.0
Chromium	mg/kg	8.6	3.4
Lead	mg/kg	9	11

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 01 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0	BTZ 25.0D
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	ND	ND	ND	6	5	11	6	5
Dichloromethane	ug/kg	5	13B	9B	20B	17B	14B	17B	14B	14B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 02 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0*
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	8	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	19	7	5	6	10	9	7
Dichloromethane	ug/kg	5	28B	33B	37B	31B	33B	27B	26B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.
* Erroneously listed on chain of custody as 02 BTZ 20.0 and called 02 BTZ 20.0T by Analytical Technologies, Inc.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 03 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	ND	9B	6B	8	7	ND	7
Dichloromethane	ug/kg	5	9B	8B	12B	13B	11B	11B	12B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 04 ZOI 1.0	WTZ 2.6	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	56	46	21	24	12	31	16
Dichloromethane	ug/kg	5	29B	15B	16B	13B	11B	11B	13B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 05 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	7B	7B	11B	11B	8B	6B	10B
Dichloromethane	ug/kg	5	32B	31B	26B	8B	8B	6B	6B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 06 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	45	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	120B	9B	ND	ND	ND	ND	ND
Dichloromethane	ug/kg	5	37B	8B	9B	9B	9B	ND	ND
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 07 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	13	9B	25B	37B	12	21	12
Dichloromethane	ug/kg	5	10B	7B	7B	14B	8B	9B	8B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 08 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	15	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	6	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	190B	74B	32B	27B	27B	180B	29B
Dichloromethane	ug/kg	5	18B	8B	8B	6B	7B	7B	8B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 09 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	9B	74B	8B	10B	12B	ND	ND
Dichloromethane	ug/kg	5	39B	34B	33B	31B	28B	ND	ND
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 10 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	6B	ND	ND	7B	5B	5B	ND
Dichloromethane	ug/kg	5	23B	19B	20B	18B	20B	22B	24B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 11 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	5B	6B	7B	7B	7B	12B	10B
Dichloromethane	ug/kg	5	8B	5B	6B	5B	6B	7B	ND
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 12 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 20.0D	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	ND	6B	5B	5B	5B	ND	5B	6B
Dichloromethane	ug/kg	5	5B	ND	6B	5B	8B	7B	22B	25B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 13 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 10.0D	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	ND	5B	5B	8B	7B	11B	9B	ND
Dichloromethane	ug/kg	5	29B	10B	11B	8B	6B	12B	12B	10B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

VOLATILE ORGANICS (8240)

Parameter	Units	Detection Limits	SAMPLE POINT - 14 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Benzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/kg	10	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ug/kg	500	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/kg	5	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/kg	5	9B	8B	11B	10B	7B	10B	10B
Dichloromethane	ug/kg	5	21B	20B	23B	18B	20B	16B	16B
Benzyl Alcohol	ug/kg	5	ND	ND	ND	ND	ND	ND	ND

B = Analyte found in blank.
ND = Not detected.

LTA CHARACTERIZATION
October 1994

GIANT - CINIZA

SEMIVOLATILE ORGANICS (8270)

Parameter	Units	Detection Limits	SAMPLE POINT - 01 ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	1000	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	2600	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	2500	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	5100	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	510	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	930	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	1500	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	3500	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 02

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0**
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	1500	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	5000	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
** Erroneously reported as 02 BTZ 20.0 on chain of custody and as 02 BTZ 20.0T by Analytical Technologies, Inc.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 03

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	3100	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
J Estimated value, analyte found below detection limit.
ND Not detected.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 04

Parameter	Units	Detection Limits	ZOI 1.0	ZOI 1.0DL	WTZ 2.6	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	5300	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	590	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 05

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 06

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	14000	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 07

Parameter	Units	Detection Limits	ZOI 1.0	ZOI 1.0DL	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0	BTZ 25.0RX
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	2300	3400	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	1500	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 08

Parameter	Units	Detection Limits	ZOI 1.0	ZOI 1.0DL	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	360	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	3700	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	1500	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 09

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	750	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.

ND Not detected.

LTA CHARACTERIZATION GIANT - CINIZA

October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 10

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 10.0RX	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.

ND Not detected.

There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 11

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 12

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 13

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 10.0RX	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	1700	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

LTA CHARACTERIZATION GIANT - CINIZA
October 1994

SEMIVOLATILE ORGANICS (8270) SAMPLE POINT - 14

Parameter	Units	Detection Limits	ZOI 1.0	WTZ 3.0	WTZ 5.0	BTZ 10.0	BTZ 15.0	BTZ 20.0	BTZ 25.0
Pyridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
3- & 4-Methylphenol*	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/kg	3300	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Benzenethiole	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Quinoline	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
7,12-Dimethylbenz(a) anthracene	ug/kg	670	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)acridine	ug/kg	670	ND	ND	ND	ND	ND	ND	ND

* These compounds are coeluted.
ND Not detected.
There are changes in reporting limits on certain samples: refer to original analytical data for those changes.

Analytical Technologies, Inc.

CLIENT : GIANT REFINING CO. DATE RECEIVED : 10/26/94
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER REPORT DATE : 11/21/94

ATI ID: 410443

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	LTA 08 ZOI 1.0	NON-AQ	10/24/94
02	LTA 08 WTZ 3.0	NON-AQ	10/24/94
03	LTA 08 WTZ 5.0	NON-AQ	10/24/94
04	LTA 08 BTZ 10.0	NON-AQ	10/24/94
05	LTA 08 BTZ 15.0	NON-AQ	10/24/94
06	LTA 08 BTZ 20.0	NON-AQ	10/24/94
07	LTA 08 BTZ 25.0	NON-AQ	10/24/94
08	LTA 07 ZOI 1.0	NON-AQ	10/24/94
09	LTA 07 WTZ 3.0	NON-AQ	10/24/94
10	LTA 07 WTZ 5.0	NON-AQ	10/24/94
11	LTA 07 BTZ 10.0	NON-AQ	10/24/94
12	LTA 07 BTZ 15.0	NON-AQ	10/24/94
13	LTA 07 BTZ 20.0	NON-AQ	10/24/94
[illegible]	LTA 07 BTZ 25.0	NON-AQ	10/24/94
15	LTA 04 ZOI 1.0	NON-AQ	10/24/94
16	LTA 04 WTZ 2.6	NON-AQ	10/24/94
17	LTA 04 WTZ 5.0	NON-AQ	10/24/94
18	LTA 04 BTZ 10.0	NON-AQ	10/24/94
19	LTA 04 BTZ 15.0	NON-AQ	10/24/94
20	LTA 04 BTZ 20.0	NON-AQ	10/24/94
21	LTA 04 BTZ 25.0	NON-AQ	10/24/94

---TOTALS---

MATRIX	#SAMPLES
NON-AQ	21

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410443

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/26/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	01	02	03	08	09
% MOISTURE	%	18.6	15.5	15.2	20.2	16.1
OIL AND GREASE, IR (EPA 413.2)	MG/KG	12000	<20	<20	9900	<20
PH (EPA 9040/9045)	UNITS	7.7	8.4	8.4	7.6	8.4
KJELDAHL NITROGEN (351.2M)	MG/KG	230	92	78	200	140
PHOSPHORUS, TOTAL (365.3M)	MG/KG	180	230	200	240	200

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410443

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/26/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	10	15	16	17
% MOISTURE	%	13.9	21.0	15.6	14.3
OIL AND GREASE, IR (EPA 413.2)	MG/KG	<20	6900	<20	<20
PH (EPA 9040/9045)	UNITS	8.5	7.5	8.5	8.5
KJELDAHL NITROGEN (351.2M)	MG/KG	130	190	220	140
PHOSPHORUS, TOTAL (365.3M)	MG/KG	260	180	170	340

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

ATI I.D. : 410443

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
% MOISTURE	%	41044317	14.3	14.1	1	NA	NA	NA
OIL AND GREASE, IR	MG/KG	41044303	<20	<20	NA	200	190	105
PH	UNITS	41046015	8.1	8.1	0	NA	NA	NA
PH	UNITS	41044317	8.5	8.6	1	NA	NA	NA
TOTAL KJELDAHL NITROGE	MG/KG	41044301	230	230	0	1100	1000	87
TOTAL KJELDAHL NITROGE	MG/KG	41046024	210	230	9	970	750	101
TOTAL KJELDAHL NITROGE	MG/KG	41044309	140	140	0	560	500	84
PHOSPHORUS,TOTAL	MG/KG	41044301	180	200	11	370	180	106

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

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

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410443

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/26/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	01	02	03	08	09
CHROMIUM (EPA 6010)	MG/KG	234	6.0	8.5	341	3.2
LEAD (EPA 6010)	MG/KG	76	6	6	54	<5

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410443

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/26/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	10	15	16	17
CHROMIUM (EPA 6010)	MG/KG	3.2	158	2.6	2.6
LEAD (EPA 6010)	MG/KG	6	63	7	<5

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER ATI I.D. : 410443

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM	MG/KG	41044309	3.2	2.7	17	50.1	50.0	94
CHROMIUM	MG/KG	41044303	8.5	8.4	1	48.7	50.0	80
LEAD	MG/KG	41044303	6	<5	NA	47	50	82

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

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

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: SRB3 10/31/94

Date Collected: N/A
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	14	5
Dichloromethane	5	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	97	74 - 121

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: SRB1 11/01/94

Date Collected: N/A
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	3 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	116	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	98	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: SRB1 11/02/94

Date Collected: N/A
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	2 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-01

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	15	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	6	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	190	5
Dichloromethane	18 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	127 *	81 - 117
Bromofluorobenzene	74	74 - 121

ND = Not Detected
B = Analyte found in Blank
* = Out of Limits

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-02

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	74 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-03

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	32 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-04

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	27 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	96	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-05

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	27 B	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-06

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	180 B	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 08 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-07

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	29 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-08

Date Collected: 10/24/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	13	5
Dichloromethane	10 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	101	70 - 121
Toluene-d8	113	81 - 117
Bromofluorobenzene	82	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-09

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-10

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	25 B	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	112	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-11

Date Collected: 10/24/94
Date Analyzed: 10/31/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	37 B	5
Dichloromethane	14 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	101	70 - 121
Toluene-d8	113	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-12

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	12	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	114	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	96	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-13

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	21	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	111	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 07 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-14

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	12	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	112	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-15

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	56	5
Dichloromethane	29 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	108	70 - 121
Toluene-d8	114	81 - 117
Bromofluorobenzene	79	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 WTZ 2.6

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-16

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	46	5
Dichloromethane	15 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-17

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	21	5
Dichloromethane	16 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-18

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	24	5
Dichloromethane	13 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-19

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	12	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-20

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	31	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 04 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-21

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	16	5
Dichloromethane	13 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

LTA 07 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-306-13

Date Collected: 10/24/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	56.5	113	59-172
Trichloroethene	50.0	ND	52.4	105	62-137
Benzene	50.0	ND	53.6	107	60-133
Toluene	50.0	2	56.2	108	59-139
Chlorobenzene	50.0	ND	52.0	104	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	55.8	112	1	22 | 59-172
Trichloroethene	50.0	55.2	110	5	24 | 62-137
Benzene	50.0	52.6	105	2	21 | 60-133
Toluene	50.0	56.6	109	1	21 | 59-139
Chlorobenzene	50.0	51.7	103	1	21 | 66-142

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GRC -- 410443
Lab Sample ID: 94-10-323-11

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	44.0	88	59-172
Trichloroethene	50.0	ND	54.0	108	62-137
Benzene	50.0	ND	43.2	86	60-133
Toluene	50.0	1	45.7	89	59-139
Chlorobenzene	50.0	ND	43.2	86	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	45.1	90	2	22 | 59-172
Trichloroethene	50.0	58.8	118	8	24 | 62-137
Benzene	50.0	45.1	90	4	21 | 60-133
Toluene	50.0	48.4	95	6	21 | 59-139
Chlorobenzene	50.0	46.0	92	6	21 | 66-142

ND = Not Detected

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: SRB1 10/31/94

Date Collected: N/A
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	66	25-121
2-Chlorophenol	65	20-130
Phenol-d5	98	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	87	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	47	19-122
Terphenyl-d14	59	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: SRB1 11/05/94

Date Collected: N/A
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	76	20-130
Phenol-d5	76	24-113
1,2-Dichlorobenzene	92	20-130
Nitrobenzene-d5	49	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: SRB1 11/10/94 RX

Date Collected: N/A
Date Extracted: 11/10/94
Date Analyzed: 11/14/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	140 J	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	63	20-130
Phenol-d5	65	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	56	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.
J = Estimated value, analyte found below detection limit

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: GPCRB1 11/01/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/04/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	430	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: GPCRB2 11/01/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/04/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: GPCRB1 11/07/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/08/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	95 J	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.
J = Estimated value, analyte found below detection limit.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

	Sample ID
	GPC Reagent Blank
Lab Name: Analytical Technologies, Inc.	
Client Name: ATI-NM	Date Collected: N/A
Client Project: GRC -- 410443	Date Extracted: N/A
Lab Sample ID: GPCRB2 11/07/94	Date Analyzed: 11/08/94
Sample Matrix: Methylene Chloride	Sample Weight: N/A
Cleanup: GPC	Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected

* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

	Sample ID
	GPC Reagent Blank RX
Lab Name: Analytical Technologies, Inc.	
Client Name: ATI-NM	Date Collected: N/A
Client Project: GRC -- 410443	Date Extracted: N/A
Lab Sample ID: GPCRB 11/11/94 RX	Date Analyzed: 11/14/94
Sample Matrix: Methylene Chloride	Sample Weight: N/A
Cleanup: GPC	Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected

* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-01

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	360	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	570 X	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	500 X	330
Chrysene	2700 X	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	680 X	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	22 **	25-121
2-Chlorophenol	35	20-130
Phenol-d5	44	24-113
1,2-Dichlorobenzene	37	20-130
Nitrobenzene-d5	31	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	38	19-122
Terphenyl-d14	59 X	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits
X = Results are questionable - compound was quantitated by an internal standard outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 ZOI 1.0 DL

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-01 DL

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: None

Sample Weight: 30 g
Final Volume: 10 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	3300
Phenol	ND	3300
1,3-Dichlorobenzene	ND	3300
2-Methylphenol	ND	3300
3 and 4-Methylphenol *	ND	3300
2,4-Dimethylphenol	ND	3300
Naphthalene	ND	3300
2-Methylnaphthalene	ND	3300
Dimethyl phthalate	ND	3300
2,4-Dinitrophenol	ND	17000
4-Nitrophenol	ND	17000
Diethyl phthalate	ND	3300
Phenanthrene	ND	3300
Anthracene	ND	3300
Fluoranthene	ND	3300
Pyrene	ND	3300
Butyl benzyl phthalate	ND	3300
Benzo(a)anthracene	ND	3300
Chrysene	3700	3300
Bis(2-ethylhexyl)phthalate	ND	3300
Di-n-octyl phthalate	ND	3300
Benzo(b)fluoranthene	ND	3300
Benzo(k)fluoranthene	ND	3300
Benzo(a)pyrene	ND	3300
Indeno(1,2,3-cd)pyrene	ND	3300
Dibenz(a,h)anthracene	ND	3300

TENTATIVELY IDENTIFIED COMPOUNDS

Benzothiole	ND	3300
Quinoline	ND	3300
1-Methylnaphthalene	ND	3300
7,12-Dimethylbenz(a)anthracene	ND	3300
Dibenz(a,h)acridine	ND	3300

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	D	25-121
2-Chlorophenol	D	20-130
Phenol-d5	D	24-113
1,2-Dichlorobenzene	D	20-130
Nitrobenzene-d5	D	23-120
2-Fluorobiphenyl	D	30-115
2,4,6-Tribromophenol	D	19-122
Terphenyl-d14	D	18-137

ND = Not Detected
* = These compounds are coeluted.
D = Diluted out
DL = Dilution

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-02

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	36	25-121
2-Chlorophenol	50	20-130
Phenol-d5	57	24-113
1,2-Dichlorobenzene	54	20-130
Nitrobenzene-d5	48	23-120
2-Fluorobiphenyl	52	30-115
2,4,6-Tribromophenol	42	19-122
Terphenyl-d14	46	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-03

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	47	25-121
2-Chlorophenol	62	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	50	19-122
Terphenyl-d14	52	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC – 410443
Lab Sample ID: 94-10-306-04

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	61	20-130
Phenol-d5	61	24-113
1,2-Dichlorobenzene	60	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	44	19-122
Terphenyl-d14	52	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-05

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	51	25-121
2-Chlorophenol	66	20-130
Phenol-d5	76	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	66	30-115
2,4,6-Tribromophenol	52	19-122
Terphenyl-d14	54	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-06

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	63	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	49	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 08 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-07

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	49	25-121
2-Chlorophenol	62	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	69	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	48	18-137

ND = Not Detected
* = These compounds are coeluted.

SEMIVOLATILE ORGANICS

Method 8270

Analytical Technologies, Inc.

Sample ID

LTA 07 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-08

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 2 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	670
Phenol	ND	670
1,3-Dichlorobenzene	ND	670
2-Methylphenol	ND	670
3 and 4-Methylphenol *	ND	670
2,4-Dimethylphenol	ND	670
Naphthalene	ND	670
2-Methylnaphthalene	ND	670
Dimethyl phthalate	ND	670
2,4-Dinitrophenol	ND	3300
4-Nitrophenol	ND	3300
Diethyl phthalate	ND	670
Phenanthrene	ND	670
Anthracene	ND	670
Fluoranthene	ND	670
Pyrene	ND	670
Butyl benzyl phthalate	ND	670
Benzo(a)anthracene	ND	670
Chrysene	2300	670
Bis(2-ethylhexyl)phthalate	ND	670
Di-n-octyl phthalate	ND	670
Benzo(b)fluoranthene	690 X	670
Benzo(k)fluoranthene	ND	670
Benzo(a)pyrene	ND	670
Indeno(1,2,3-cd)pyrene	ND	670
Dibenz(a,h)anthracene	ND	670

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	670
Quinoline	ND	670
1-Methylnaphthalene	ND	670
7,12-Dimethylbenz(a)anthracene	ND	670
Dibenz(a,h)acridine	ND	670

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	18 **	25-121
2-Chlorophenol	31	20-130
Phenol-d5	37	24-113
1,2-Dichlorobenzene	39	20-130
Nitrobenzene-d5	39	23-120
2-Fluorobiphenyl	41	30-115
2,4,6-Tribromophenol	31	19-122
Terphenyl-d14	41 X	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits
X = Results are questionable - compound was quantitated by an internal standard outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 ZOI 1.0 DL

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-08 DL

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: None

Sample Weight: 30 g
Final Volume: 4 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	1300
Phenol	ND	1300
1,3-Dichlorobenzene	ND	1300
2-Methylphenol	ND	1300
3 and 4-Methylphenol *	ND	1300
2,4-Dimethylphenol	ND	1300
Naphthalene	ND	1300
2-Methylnaphthalene	ND	1300
Dimethyl phthalate	ND	1300
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
Diethyl phthalate	ND	1300
Phenanthrene	ND	1300
Anthracene	ND	1300
Fluoranthene	ND	1300
Pyrene	ND	1300
Butyl benzyl phthalate	ND	1300
Benzo(a)anthracene	ND	1300
Chrysene	3400	1300
Bis(2-ethylhexyl)phthalate	ND	1300
Di-n-octyl phthalate	ND	1300
Benzo(b)fluoranthene	1500	1300
Benzo(k)fluoranthene	ND	1300
Benzo(a)pyrene	ND	1300
Indeno(1,2,3-cd)pyrene	ND	1300
Dibenz(a,h)anthracene	ND	1300

TENTATIVELY IDENTIFIED COMPOUNDS

Benzothiole	ND	1300
Quinoline	ND	1300
1-Methylnaphthalene	ND	1300
7,12-Dimethylbenz(a)anthracene	ND	1300
Dibenz(a,h)acridine	ND	1300

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	17 **	25-121
2-Chlorophenol	37	20-130
Phenol-d5	40	24-113
1,2-Dichlorobenzene	45	20-130
Nitrobenzene-d5	38	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	32	19-122
Terphenyl-d14	52	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-09

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	45	25-121
2-Chlorophenol	59	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	68	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	44	19-122
Terphenyl-d14	50	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-10

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	54	25-121
2-Chlorophenol	69	20-130
Phenol-d5	71	24-113
1,2-Dichlorobenzene	68	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	54	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-11

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	47	25-121
2-Chlorophenol	61	20-130
Phenol-d5	72	24-113
1,2-Dichlorobenzene	68	20-130
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	50	19-122
Terphenyl-d14	50	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-12

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	51	25-121
2-Chlorophenol	64	20-130
Phenol-d5	74	24-113
1,2-Dichlorobenzene	74	20-130
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	51	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-13

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	25-121
2-Chlorophenol	59	20-130
Phenol-d5	72	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	54	19-122
Terphenyl-d14	50	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-14

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	NS	25-121
2-Chlorophenol	NS	20-130
Phenol-d5	NS	24-113
1,2-Dichlorobenzene	NS	20-130
Nitrobenzene-d5	NS	23-120
2-Fluorobiphenyl	NS	30-115
2,4,6-Tribromophenol	NS	19-122
Terphenyl-d14	NS	18-137

ND = Not Detected
* = These compounds are coeluted.
NS = Not Spiked

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 07 BTZ 25.0 RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-14 RX

Date Collected: 10/24/94
Date Extracted: 11/10/94
Date Analyzed:' 11/14/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	54	25-121
2-Chlorophenol	63	20-130
Phenol-d5	65	24-113
1,2-Dichlorobenzene	68	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-15

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	1600 X	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	860 X	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	1000 X	330
Benzo(k)fluoranthene	1300 X	330
Benzo(a)pyrene	1200 X	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	21 **	25-121
2-Chlorophenol	31	20-130
Phenol-d5	37	24-113
1,2-Dichlorobenzene	35	20-130
Nitrobenzene-d5	27	23-120
2-Fluorobiphenyl	43	30-115
2,4,6-Tribromophenol	36	19-122
Terphenyl-d14	46 X	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits
X = Results are questionable - compound was quantitated by an internal standard outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 ZOI 1.0 DL

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-15 DL

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: None

Sample Weight: 30 g
Final Volume: 5 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	1700
Phenol	ND	1700
1,3-Dichlorobenzene	ND	1700
2-Methylphenol	ND	1700
3 and 4-Methylphenol *	ND	1700
2,4-Dimethylphenol	ND	1700
Naphthalene	ND	1700
2-Methylnaphthalene	ND	1700
Dimethyl phthalate	ND	1700
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	1700
Phenanthrene	ND	1700
Anthracene	ND	1700
Fluoranthene	ND	1700
Pyrene	ND	1700
Butyl benzyl phthalate	ND	1700
Benzo(a)anthracene	ND	1700
Chrysene	5300	1700
Bis(2-ethylhexyl)phthalate	ND	1700
Di-n-octyl phthalate	ND	1700
Benzo(b)fluoranthene	ND	1700
Benzo(k)fluoranthene	ND	1700
Benzo(a)pyrene	ND	1700
Indeno(1,2,3-cd)pyrene	ND	1700
Dibenz(a,h)anthracene	ND	1700

TENTATIVELY IDENTIFIED COMPOUNDS

Benzothiole	ND	1700
Quinoline	ND	1700
1-Methylnaphthalene	ND	1700
7,12-Dimethylbenz(a)anthracene	ND	1700
Dibenz(a,h)acridine	ND	1700

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	24 **	25-121
2-Chlorophenol	39	20-130
Phenol-d5	47	24-113
1,2-Dichlorobenzene	43	20-130
Nitrobenzene-d5	35	23-120
2-Fluorobiphenyl	53	30-115
2,4,6-Tribromophenol	35	19-122
Terphenyl-d14	40	18-137

ND = Not Detected
* = These compounds are coeluted.
D = Diluted out
DL = Dilution
** = Outside QC Limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 WTZ 2.6

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-16

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	25-121
2-Chlorophenol	63	20-130
Phenol-d5	76	24-113
1,2-Dichlorobenzene	75	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	52	19-122
Terphenyl-d14	48	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-17

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	42	25-121
2-Chlorophenol	51	20-130
Phenol-d5	62	24-113
1,2-Dichlorobenzene	60	20-130
Nitrobenzene-d5	50	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	42	19-122
Terphenyl-d14	43	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-18

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	62	20-130
Phenol-d5	76	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	49	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-19

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	590	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	63	20-130
Phenol-d5	75	24-113
1,2-Dichlorobenzene	74	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	49	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-20

Date Collected: 10/24/94
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	64	20-130
Phenol-d5	75	24-113
1,2-Dichlorobenzene	73	20-130
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	49	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 04 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-306-21

Date Collected: 10/24/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	68	25-121
2-Chlorophenol	101	20-130
Phenol-d5	104	24-113
1,2-Dichlorobenzene	116	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS BLANK SPIKE/BLANK SPIKE DUPLICATE RESULTS

Method 8270

Sample ID

Blank Spike

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: SBS1 10/31/94

Date Collected: N/A
Date Extracted: 10/31/94
Date Analyzed: 11/04/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	BS Concentration (ug/kg)	BS % Rec	QC Limit Recovery
Phenol	2500	N/A	2160	86	26- 90
2-Chlorophenol	2500	N/A	1630	65	25-102
1,4-Dichlorobenzene	1670	N/A	1140	68	28-104
N-Nitroso-di-n-propylamine	1670	N/A	1230	74	41-126
1,2,4-Trichlorobenzene	1670	N/A	1190	71	38-107
4-Chloro-3-methylphenol	2500	N/A	1680	67	26-103
Acenaphthene	1670	N/A	1160	69	31-137
4-Nitrophenol	2500	N/A	1410	56	11-114
2,4-Dinitrotoluene	1670	N/A	1370	82	28- 89
Pentachlorophenol	2500	N/A	1650	66	17-109
Pyrene	1670	N/A	944	57	35-142

Analyte	Spike Added (ug/kg)	BSD Concentration (ug/kg)	BSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1960	78	10	35 | 26-90
2-Chlorophenol	2500	1630	65	0	50 | 25-102
1,4-Dichlorobenzene	1670	1180	71	3	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1210	72	2	38 | 41-126
1,2,4-Trichlorobenzene	1670	1210	72	2	23 | 38-107
4-Chloro-3-methylphenol	2500	1700	68	1	33 | 26-103
Acenaphthene	1670	1140	68	2	19 | 31-137
4-Nitrophenol	2500	1440	58	2	50 | 11-114
2,4-Dinitrotoluene	1670	1390	83	1	47 | 28-89
Pentachlorophenol	2500	1600	64	3	47 | 17-109
Pyrene	1670	960	57	2	36 | 35-142

N/A = Not Applicable

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-323-13

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1960	78	26- 90
2-Chlorophenol	2500	ND	2380	95	25-102
1,4-Dichlorobenzene	1670	ND	1630	98	28-104
N-Nitroso-di-n-propylamine	1670	ND	1240	74	41-126
1,2,4-Trichlorobenzene	1670	ND	1360	81	38-107
4-Chloro-3-methylphenol	2500	ND	1740	70	26-103
Acenaphthene	1670	ND	1410	84	31-137
4-Nitrophenol	2500	ND	1450	58	11-114
2,4-Dinitrotoluene	1670	ND	1500	90 *	28- 89
Pentachlorophenol	2500	ND	1870	75	17-109
Pyrene	1670	ND	1180	71	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1800	72	9	35 | 26-90
2-Chlorophenol	2500	2220	89	7	50 | 25-102
1,4-Dichlorobenzene	1670	1510	90	8	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1100	66	12	38 | 41-126
1,2,4-Trichlorobenzene	1670	1330	80	2	23 | 38-107
4-Chloro-3-methylphenol	2500	1660	66	5	33 | 26-103
Acenaphthene	1670	1400	84	1	19 | 31-137
4-Nitrophenol	2500	1430	57	1	50 | 11-114
2,4-Dinitrotoluene	1670	1460	87	3	47 | 28-89
Pentachlorophenol	2500	1730	69	8	47 | 17-109
Pyrene	1670	1150	69	3	36 | 35-142

ND = Not Detected
* = Outside QC limits.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS BLANK SPIKE/BLANK SPIKE DUPLICATE RESULTS

Method 8270

Sample ID

Blank Spike

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: SBS1 11/05/94

Date Collected: N/A
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	BS Concentration (ug/kg)	BS % Rec	QC Limit Recovery
Phenol	2500	N/A	1880	75	26- 90
2-Chlorophenol	2500	N/A	2290	92	25-102
1,4-Dichlorobenzene	1670	N/A	1610	96	28-104
N-Nitroso-di-n-propylamine	1670	N/A	1150	69	41-126
1,2,4-Trichlorobenzene	1670	N/A	1360	81	38-107
4-Chloro-3-methylphenol	2500	N/A	1670	67	26-103
Acenaphthene	1670	N/A	1330	80	31-137
4-Nitrophenol	2500	N/A	1250	50	11-114
2,4-Dinitrotoluene	1670	N/A	1340	80	28- 89
Pentachlorophenol	2500	N/A	1490	60	17-109
Pyrene	1670	N/A	1020	61	35-142

Analyte	Spike Added (ug/kg)	BSD Concentration (ug/kg)	BSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	2470	99 *	27	35 | 26-90
2-Chlorophenol	2500	3000	120 *	27	50 | 25-102
1,4-Dichlorobenzene	1670	2110	126 *	27	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1430	86	22	38 | 41-126
1,2,4-Trichlorobenzene	1670	1580	95	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1920	77	14	33 | 26-103
Acenaphthene	1670	1400	84	5	19 | 31-137
4-Nitrophenol	2500	1400	56	11	50 | 11-114
2,4-Dinitrotoluene	1670	1480	89	10	47 | 28-89
Pentachlorophenol	2500	1640	66	10	47 | 17-109
Pyrene	1670	1090	65	7	36 | 35-142

N/A = Not Applicable
* = Outside QC limits.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GRC -- 410443
Lab Sample ID: 94-10-335-26 RX

Date Collected: 10/26/94
Date Extracted: 11/10/94
Date Analyzed: 11/14/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1600	64	26- 90
2-Chlorophenol	2500	ND	1550	62	25-102
1,4-Dichlorobenzene	1670	ND	1020	61	28-104
N-Nitroso-di-n-propylamine	1670	ND	1200	72	41-126
1,2,4-Trichlorobenzene	1670	ND	1030	62	38-107
4-Chloro-3-methylphenol	2500	ND	1570	63	26-103
Acenaphthene	1670	ND	1100	66	31-137
4-Nitrophenol	2500	ND	1440	58	11-114
2,4-Dinitrotoluene	1670	ND	1160	69	28- 89
Pentachlorophenol	2500	ND	1310	52	17-109
Pyrene	1670	ND	1040	62	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1560	62	3	35 | 26-90
2-Chlorophenol	2500	1510	60	3	50 | 25-102
1,4-Dichlorobenzene	1670	990	59	3	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1130	68	6	38 | 41-126
1,2,4-Trichlorobenzene	1670	1000	60	3	23 | 38-107
4-Chloro-3-methylphenol	2500	1490	60	5	33 | 26-103
Acenaphthene	1670	1050	63	5	19 | 31-137
4-Nitrophenol	2500	1390	56	4	50 | 11-114
2,4-Dinitrotoluene	1670	1090	65	6	47 | 28-89
Pentachlorophenol	2500	1250	50	5	47 | 17-109
Pyrene	1670	1050	63	1	36 | 35-142

ND = Not Detected

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-25-94 PAGE 1 OF 2

ATI LAB I.D. L1D420

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: GIANT REFINING CO.
ADDRESS: I40 EXIT 39
JAMESTOWN, NM 87347
PHONE: (505) 722-3833
FAX: (505) 722-0210

BILL TO: LYNN SHELTON
COMPANY: GIANT
ADDRESS: RT3 BOX 7
GALLUP, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM & LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 08 ZOI 1.0	10-24		SOIL	01										X	X			X	X														3
LTA 08 WTZ 3.0	10-24		SOIL	02										X	X			X	X														3
LTA 08 WTZ 5.0	10-24		SOIL	03										X	X			X	X														3
LTA 08 BTZ 10.0	10-24		SOIL	04														X	X														2
LTA 08 BTZ 15.0	10-24		SOIL	05														X	X														2
LTA 08 BTZ 20.0	10-24		SOIL	06														X	X														2
LTA 08 BTZ 25.0	10-24		SOIL	07														X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA CHARACTER	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:	FEDEX	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 945
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: Dianne Lutter 10/26/94
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE: 10-25-94 PAGE 2 OF 3

ATI LAB I.D. 410448

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: GIANT REFINING CO.
ADDRESS: I40 EXIT 39
JAMESTOWN, NM 87347
PHONE: (505) 722- 3833
FAX: (505) 722-0210

BILL TO: LYNN SHELTON
COMPANY: GIANT
ADDRESS: RT 3 BOX 7
GALLUP, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM + LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 07 ZOI 1.0	10-24		SOIL	08										X	X			X	X														3
LTA07 WTZ 3.0	10-24		SOIL	09										X	X			X	X														3
LTA07 WTZ 5.0	10-24		SOIL	10										X	X			X	X														3
LTA 07 BTZ 10.0	10-24		SOIL	11														X	X														2
LTA 07 BTZ 15.0	10-24		SOIL	12														X	X														2
LTA 07 BTZ 20.0	10-24		SOIL	13														X	X														2
LTA 07 BTZ 25.0	10-24		SOIL	14														X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA CHARACTER	CUSTODY SEALS	(Y) N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:	FEDEX	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: [signature] Time: 945
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Luther Date: 10-26-94
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-25-94 PAGE 3 OF 3

ATI LAB I.D. L10463

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: GIANT
ADDRESS: I40 EXIT 39
JAMESTOWN, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO:
COMPANY: SAME
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	GENERAL CHEMISTRY	CHROMIUM & LEAD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 04 ZOI 1.0	10-24		SOIL	15										X	X			X	X														3
LTA 04 WTZ 2.6	10-24		SOIL	16										X	X			X	X														3
LTA 04 WTZ 5.0	10-24		SOIL	17										X	X			X	X														3
LTA 04 BTZ 10.0	10-24		SOIL	18														X	X														2
LTA 04 BTZ 15.0	10-24		SOIL	19														X	X														2
LTA 04 BTZ 20.0	10-24		SOIL	20														X	X														2
LTA 04 BTZ 25.0	10-24		SOIL	21														X	X														2

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA CHARACTER
P.O. NO.:
SHIPPED VIA: FEDEX

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	✓
RECEIVED COLD	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 9:45	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-25-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 945
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: 10/26/94
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/26/94 PAGE 1 OF 1

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: Analytical Technologies, Inc.

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)	Gen. Chem. See Attached Fax	632/632 MOD	619/619 MOD	610/8310	Cr, Pb		8240 (TCLP 1311) ZHE		Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410443-01	10-24		Nonag	1						X				X																				1
-02				2						X				X																				1
-03				3						X				X																				1
-08				8						X				X																				1
-09				9						X				X																				1
-10				10						X				X																				1
-15				15						X				X																				1
-16				16						X				X																				1
-17				17						X				X																				1

PROJECT INFORMATION	SAMPLE RECEIPT	
PROJECT NUMBER: 410443	TOTAL NUMBER OF CONTAINERS	9
PROJECT NAME: GII	CHAIN OF CUSTODY SEALS	Y
QC LEVEL: (STD) IV	INTACT?	Y
QC REQUIRED: MS MSD BLANK	RECEIVED GOOD COND/COLD	Y
TAT: (STANDARD) RUSH!	LAB NUMBER 410443	

DUE DATE: 11/9
RUSH SURCHARGE: -0-
CLIENT DISCOUNT: -10- %
NOTE

IDAH LK/075

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	X
FIBERQUANT	

RELINQUISHED BY: 1.
Signature: D Lutter Time: 1730
Printed Name: Danne Lutter Date: 10/26/94
Analytical Technologies, Inc. Albuquerque
Company:

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company:

RECEIVED BY: (LAB) 2.
Signature: Rosella Vidal Time: 1031
Printed Name: Rosella Vidal Date: 10/27/94
Company: ATI

94-10-506

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/26/94 PAGE 1 OF 3

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: Analytical Technologies, Inc.

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/5310			8240 ~~PCB 10/11 2RE~~	8270	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410443-01	10-24		Nonaq	01												X	X																	
-02				02												X	X																	
-03				03												X	X																	
-04				04												X	X																	
-05				05												X	X																	
-06				06												X	X																	
-07				07												X	X																	
-08				08												X	X																	
-09				04												X	X																	

IVM
IEAT

PROJECT INFORMATION	
PROJECT NUMBER:	410443
PROJECT NAME:	GRE
QC LEVEL:	(STD) IV
QC REQUIRED:	MS MSD BLANK
TAT:	(STANDARD) RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	42
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/(COLD)	Y
LAB NUMBER	

DUE DATE: 11/9
RUSH SURCHARGE: 0
CLIENT DISCOUNT: -10 %
(prior approval)

Work LK1078

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Dianne Hutter Time: 1730	Signature: Time:
Printed Name: Dianne Hutter Date: 10/26/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: ATI ABQ NP
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 10:45
Printed Name: Date:	Printed Name: L. Kelly Date: 10-27-94
Company: ATI ABQ NP	Company: ATI

94-10-506

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/26/94 PAGE 2 OF 3

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310			8240 (~~TCLP 1311 ZHE~~)	8270	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410443-10	10-24		Water	10												X	X																	
-11				11												X	X																	
-12				12												X	X																	
-13				13												X	X																	
-14				14												X	X																	
-15				15												X	X																	
-16				16												X	X																	
-17				17												X	X																	
-18				18												X	X																	

1UM 1EXT

PROJECT INFORMATION	
PROJECT NUMBER:	410443
PROJECT NAME:	GET-GPC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	42
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

DUE DATE: 11/9
RUSH SURCHARGE: 0
CLIENT DISCOUNT: 10 %

WO# LK1078

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Dlutter Time: 1730	Signature: Time:
Printed Name: Dianne Utter Date: 10/26/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company:
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:
Company:	Company:

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-306

DATE 10/26/94 PAGE 3 OF 3

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		532/632 MOD	619/619 MOD	610/8310			8240 ~~[illegible]~~ VOLATILE	8270 Just Acids	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410443-19	10-24	X	Dirty	19												X	X																	1 VM 1 EX
-20	↓	X	↓	20												X	X																	
-21	↓	X	↓	21												X	X																	

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	410443	TOTAL NUMBER OF CONTAINERS	42
PROJECT NAME:	GIFGPC	CHAIN OF CUSTODY SEALS	Y
QC LEVEL:	STD. IV	INTACT?	Y
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD	Y
TAT:	STANDARD RUSH!	LAB NUMBER	

DUE DATE: 11/9
RUSH SURCHARGE: 0
CLIENT DISCOUNT: -10 %
Client phone

WO# WK1078

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Dilutter Time: 1730	Signature: Time:
Printed Name: Dianne Lutter Date: 10/26/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company:
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:
Company:	Company:

Analytical Technologies, Inc.

CLIENT : GIANT REFINING
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

ATI ID: 410460

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	LTA 09 ZOI 1.0	NON-AQ	10/25/94
02	LTA 09 WTZ 3.0	NON-AQ	10/25/94
03	LTA 09 WTZ 5.0	NON-AQ	10/25/94
04	LTA 09 BTZ 10.0	NON-AQ	10/25/94
05	LTA 09 BTZ 15.0	NON-AQ	10/25/94
06	LTA 09 BTZ 20.0	NON-AQ	10/25/94
07	LTA 09 BTZ 25.0	NON-AQ	10/25/94
08	LTA 05 ZOI 1.0	NON-AQ	10/25/94
09	LTA 05 WTZ 3.0	NON-AQ	10/25/94
10	LTA 05 WTZ 5.0	NON-AQ	10/25/94
11	LTA 05 BTZ 10.0	NON-AQ	10/25/94
12	LTA 05 BTZ 15.0	NON-AQ	10/25/94
13	LTA 05 BTZ 20.0	NON-AQ	10/25/94
14	LTA 05 BTZ 25.0	NON-AQ	10/25/94
15	LTA 06 ZOI 1.0	NON-AQ	10/25/94
16	LTA 06 WTZ 3.0	NON-AQ	10/25/94
17	LTA 06 WTZ 5.0	NON-AQ	10/25/94
18	LTA 06 BTZ 10.0	NON-AQ	10/25/94
19	LTA 06 BTZ 15.0	NON-AQ	10/25/94
20	LTA 06 BTZ 20.0	NON-AQ	10/25/94
21	LTA 06 BTZ 25.0	NON-AQ	10/25/94
22	LTA 01 ZOI 1.0	NON-AQ	10/25/94
23	LTA 01 WTZ 3.0	NON-AQ	10/25/94
24	LTA 01 WTZ 5.0	NON-AQ	10/25/94
25	LTA 01 BTZ 10.0	NON-AQ	10/25/94
26	LTA 01 BTZ 15.0	NON-AQ	10/25/94
27	LTA 01 BTZ 20.0	NON-AQ	10/25/94
28	LTA 01 BTZ 25.0	NON-AQ	10/25/94
29	LTA 01 BTZ 15.0D	NON-AQ	10/25/94
30	LTA 01 BTZ 25.0R	AQUEOUS	10/25/94

---TOTALS---

MATRIX	#SAMPLES
NON-AQ	29
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	01	02	03	08	09
% MOISTURE	%	21.7	15.9	14.3	23.1	14.0
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	<20	<20	160	<20
PH (EPA 9040/9045)	UNITS	8.2	8.4	8.4	7.8	8.6
KJELDAHL NITROGEN (351.2M)	MG/KG	300	160	180	260	210
PHOSPHORUS, TOTAL (365.3M)	MG/KG	170	170	310	170	170

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	10	15	16	17	22
% MOISTURE	%	13.7	20.0	17.6	13.7	20.4
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	13000	130	<20	3100
PH (EPA 9040/9045)	UNITS	8.4	8.1	8.2	8.6	7.9
KJELDAHL NITROGEN (351.2M)	MG/KG	180	180	200	210	910
PHOSPHORUS, TOTAL (365.3M)	MG/KG	200	220	230	230	130

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	23	24
% MOISTURE	%	18.6	15.3
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	<20
PH (EPA 9040/9045)	UNITS	8.0	8.5
KJELDAHL NITROGEN (351.2M)	MG/KG	270	210
PHOSPHORUS, TOTAL (365.3M)	MG/KG	180	310

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

ATI I.D. : 410460

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
% MOISTURE	%	41046010	13.7	14.5	6	NA	NA	NA
% MOISTURE	%	41046908	20.1	20.8	3	NA	NA	NA
OIL AND GREASE, IR	MG/KG	41044303	<20	<20	NA	200	190	105
OIL AND GREASE, IR	MG/KG	41046003	<20	<20	NA	200	190	105
OIL AND GREASE, IR	MG/KG	41046902	<20	<20	NA	200	190	105
PH	UNITS	41046948	8.4	8.4	0	NA	NA	NA
PH	UNITS	41046015	8.1	8.1	0	NA	NA	NA
PH	UNITS	41046909	8.6	8.6	0	NA	NA	NA
TOTAL KJELDAHL NITROGE	MG/KG	41044309	140	140	0	560	500	84
TOTAL KJELDAHL NITROGE	MG/KG	41046024	210	230	9	970	750	101
PHOSPHORUS,TOTAL	MG/KG	41046002	170	170	0	340	170	100
PHOSPHORUS,TOTAL	MG/KG	41046022	130	130	0	280	140	107
PHOSPHORUS,TOTAL	MG/KG	41046024	310	270	14	610	300	100

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

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

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	01	02	03	08	09
CHROMIUM (EPA 6010)	MG/KG	1.8	3.4	3.1	4.7	4.3
LEAD (EPA 6010)	MG/KG	8	8	7	6	10

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	10	15	16	17	22
CHROMIUM (EPA 6010)	MG/KG	6.8	339	6.8	3.1	148
LEAD (EPA 6010)	MG/KG	11	55	7	7	38

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410460

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/27/94
REPORT DATE : 11/21/94

PARAMETER	UNITS	23	24
CHROMIUM (EPA 6010)	MG/KG	2.8	5.2
LEAD (EPA 6010)	MG/KG	8	9

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER ATI I.D. : 410460

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM	MG/KG	41046003	3.1	3.3	6	44.8	50.0	83
CHROMIUM	MG/KG	41046017	3.1	3.8	20	44.5	50.0	83
LEAD	MG/KG	41046003	7	9	25	48	50	82
LEAD	MG/KG	41046017	7	7	0	48	50	82

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

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

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: WRB1 10/28/94

Date Collected: N/A
Date Analyzed: 10/28/94

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	15	5
Dichloromethane	7	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	109	76 - 114
Toluene-d8	104	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected
B = Analyte found in Blank
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: WRB1 11/02/94

Date Collected: N/A
Date Analyzed: 11/02/94

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	2 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	76 - 114
Toluene-d8	102	88 - 110
Bromofluorobenzene	95	86 - 115

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-305-06

Date Collected: 10/24/94
Date Analyzed: 10/28/94

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	46.9	94	61-145
Trichloroethene	50.0	ND	49.9	100	71-120
Benzene	50.0	ND	52.5	105	76-127
Toluene	50.0	ND	52.4	105	76-125
Chlorobenzene	50.0	ND	51.8	104	75-130

Analyte	Spike Added (ug/L)	MSD Concentration (ug/L)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	49.9	100	6	14 | 61-145
Trichloroethene	50.0	49.2	98	1	14 | 71-120
Benzene	50.0	51.2	102	3	11 | 76-127
Toluene	50.0	51.0	102	3	13 | 76-125
Chlorobenzene	50.0	49.5	99	4	13 | 75-130

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: SRB2 11/01/94

Date Collected: N/A
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	8	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	97	74 - 121

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: SRB1 11/02/94

Date Collected: N/A
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	2 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-01

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	39 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-02

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	34 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	81	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-03

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8 B	5
Dichloromethane	33 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-04

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	31 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-05

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	12 B	5
Dichloromethane	28 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-06

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	28 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 09 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-07

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8 B	5
Dichloromethane	33 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-08

Date Collected: 10/25/94
Date Analyzed: 11/01/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	32 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-09

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	31 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	112	81 - 117
Bromofluorobenzene	84	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-10

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	11 B	5
Dichloromethane	26 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-11

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	11 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-12

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-13

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 05 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-14

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-15

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 1 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	25
2-Butanone (MEK)	ND	50
Carbon Disulfide	ND	25
Chlorobenzene	ND	25
Chloroform	ND	25
1,4-Dioxane	ND	2500
Ethylbenzene	45	25
Styrene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
Ethylene Dibromide	ND	25
Acetone	120 B	25
Dichloromethane	37 B	25
Benzyl Alcohol	ND	25

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-16

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	90	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	81	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-17

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	97	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-18

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	93	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-19

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	91	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-20

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 06 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-21

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-22

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	13 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	78	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-23

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-24

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	20 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	92	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-25

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6	5
Dichloromethane	17 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-26

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5	5
Dichloromethane	14 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 15.0D

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-29

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5	5
Dichloromethane	14 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-27

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	11	5
Dichloromethane	17 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-28

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6	5
Dichloromethane	14 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 01 BTZ 25.0R

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-30

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Results (ug/L)	Detection Limit (ug/L)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	22	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	109	5
Dichloromethane	ND	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	96	86 - 115

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

LTA 05 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-11

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	44.0	88	59-172
Trichloroethene	50.0	ND	54.0	108	62-137
Benzene	50.0	ND	43.2	86	60-133
Toluene	50.0	1	45.7	89	59-139
Chlorobenzene	50.0	ND	43.2	86	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	45.1	90	2	22 | 59-172
Trichloroethene	50.0	58.8	118	8	24 | 62-137
Benzene	50.0	45.1	90	4	21 | 60-133
Toluene	50.0	48.4	95	6	21 | 59-139
Chlorobenzene	50.0	46.0	92	6	21 | 66-142

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

LTA 01 BTZ 15.0D

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-323-29

Date Collected: 10/25/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	46.1	92	59-172
Trichloroethene	50.0	ND	65.4	131	62-137
Benzene	50.0	ND	46.3	93	60-133
Toluene	50.0	ND	48.2	96	59-139
Chlorobenzene	50.0	ND	47.3	95	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	45.7	91	1	22 | 59-172
Trichloroethene	50.0	65.1	130	0	24 | 62-137
Benzene	50.0	44.8	90	3	21 | 60-133
Toluene	50.0	45.9	92	5	21 | 59-139
Chlorobenzene	50.0	45.3	91	4	21 | 66-142

ND = Not Detected

Analytical **Technologies,** Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: GII -- 410460
Lab Sample ID: 94-10-305-06

Date Collected: 10/24/94
Date Analyzed: 10/28/94

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	46.9	94	61-145
Trichloroethene	50.0	ND	49.9	100	71-120
Benzene	50.0	ND	52.5	105	76-127
Toluene	50.0	ND	52.4	105	76-125
Chlorobenzene	50.0	ND	51.8	104	75-130

Analyte	Spike Added (ug/L)	MSD Concentration (ug/L)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	49.9	100	6	14 | 61-145
Trichloroethene	50.0	49.2	98	1	14 | 71-120
Benzene	50.0	51.2	102	3	11 | 76-127
Toluene	50.0	51.0	102	3	13 | 76-125
Chlorobenzene	50.0	49.5	99	4	13 | 75-130

ND = Not Detected

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: SRB1 11/05/94

Date Collected: N/A
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	76	20-130
Phenol-d5	76	24-113
1,2-Dichlorobenzene	92	20-130
Nitrobenzene-d5	49	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: SRB1 11/02/94

Date Collected: N/A
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	66	25-121
2-Chlorophenol	86	20-130
Phenol-d5	104	24-113
1,2-Dichlorobenzene	104	20-130
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	85	30-115
2,4,6-Tribromophenol	67	19-122
Terphenyl-d14	87	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: GPCRB2 11/03/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/05/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

SEMIVOLATILE ORGANICS

Method 8270

Analytical Technologies, Inc.

Sample ID
GPC Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: GPCRB1 11/07/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/08/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: GPCRB2 11/07/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/08/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-01

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	81	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	75	20-130
Nitrobenzene-d5	50	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	47	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-02

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	59	25-121
2-Chlorophenol	94	20-130
Phenol-d5	93	24-113
1,2-Dichlorobenzene	111	20-130
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	53	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-03

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	64	25-121
2-Chlorophenol	97	20-130
Phenol-d5	101	24-113
1,2-Dichlorobenzene	122	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	75	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	58	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-04

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	750	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	73	25-121
2-Chlorophenol	115	20-130
Phenol-d5	117 **	24-113
1,2-Dichlorobenzene	137 **	20-130
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	58	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-05

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	60	25-121
2-Chlorophenol	90	20-130
Phenol-d5	92	24-113
1,2-Dichlorobenzene	106	20-130
Nitrobenzene-d5	50	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	53	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII – 410460
Lab Sample ID: 94-10-323-06

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	88	20-130
Phenol-d5	90	24-113
1,2-Dichlorobenzene	105	20-130
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	55	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 09 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII – 410460
Lab Sample ID: 94-10-323-07

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	88	20-130
Phenol-d5	90	24-113
1,2-Dichlorobenzene	100	20-130
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII – 410460
Lab Sample ID: 94-10-323-08

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 20 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	6700
Phenol	ND	6700
1,3-Dichlorobenzene	ND	6700
2-Methylphenol	ND	6700
3 and 4-Methylphenol *	ND	6700
2,4-Dimethylphenol	ND	6700
Naphthalene	ND	6700
2-Methylnaphthalene	ND	6700
Dimethyl phthalate	ND	6700
2,4-Dinitrophenol	ND	33000
4-Nitrophenol	ND	33000
Diethyl phthalate	ND	6700
Phenanthrene	ND	6700
Anthracene	ND	6700
Fluoranthene	ND	6700
Pyrene	ND	6700
Butyl benzyl phthalate	ND	6700
Benzo(a)anthracene	ND	6700
Chrysene	ND	6700
Bis(2-ethylhexyl)phthalate	ND	6700
Di-n-octyl phthalate	ND	6700
Benzo(b)fluoranthene	ND	6700
Benzo(k)fluoranthene	ND	6700
Benzo(a)pyrene	ND	6700
Indeno(1,2,3-cd)pyrene	ND	6700
Dibenz(a,h)anthracene	ND	6700

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	6700
Quinoline	ND	6700
1-Methylnaphthalene	ND	6700
7,12-Dimethylbenz(a)anthracene	ND	6700
Dibenz(a,h)acridine	ND	6700

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	D	25-121
2-Chlorophenol	D	20-130
Phenol-d5	D	24-113
1,2-Dichlorobenzene	D	20-130
Nitrobenzene-d5	D	23-120
2-Fluorobiphenyl	D	30-115
2,4,6-Tribromophenol	D	19-122
Terphenyl-d14	D	18-137

ND = Not Detected
* = These compounds are coeluted.
D = Diluted out.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-09

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	60	25-121
2-Chlorophenol	97	20-130
Phenol-d5	98	24-113
1,2-Dichlorobenzene	107	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	62	19-122
Terphenyl-d14	55	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-10

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	65	25-121
2-Chlorophenol	97	20-130
Phenol-d5	93	24-113
1,2-Dichlorobenzene	105	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	55	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII – 410460
Lab Sample ID: 94-10-323-11

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	65	25-121
2-Chlorophenol	100	20-130
Phenol-d5	103	24-113
1,2-Dichlorobenzene	119	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	75	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	54	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-12

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	61	25-121
2-Chlorophenol	92	20-130
Phenol-d5	95	24-113
1,2-Dichlorobenzene	111	20-130
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	53	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-13

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	64	25-121
2-Chlorophenol	96	20-130
Phenol-d5	95	24-113
1,2-Dichlorobenzene	108	20-130
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	79	30-115
2,4,6-Tribromophenol	67	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 05 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-14

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	65	25-121
2-Chlorophenol	98	20-130
Phenol-d5	101	24-113
1,2-Dichlorobenzene	117	20-130
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	60	19-122
Terphenyl-d14	53	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-15

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 40 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	13000
Phenol	ND	13000
1,3-Dichlorobenzene	ND	13000
2-Methylphenol	ND	13000
3 and 4-Methylphenol *	ND	13000
2,4-Dimethylphenol	ND	13000
Naphthalene	ND	13000
2-Methylnaphthalene	14000	13000
Dimethyl phthalate	ND	13000
2,4-Dinitrophenol	ND	67000
4-Nitrophenol	ND	67000
Diethyl phthalate	ND	13000
Phenanthrene	ND	13000
Anthracene	ND	13000
Fluoranthene	ND	13000
Pyrene	ND	13000
Butyl benzyl phthalate	ND	13000
Benzo(a)anthracene	ND	13000
Chrysene	ND	13000
Bis(2-ethylhexyl)phthalate	ND	13000
Di-n-octyl phthalate	ND	13000
Benzo(b)fluoranthene	ND	13000
Benzo(k)fluoranthene	ND	13000
Benzo(a)pyrene	ND	13000
Indeno(1,2,3-cd)pyrene	ND	13000
Dibenz(a,h)anthracene	ND	13000

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	13000
Quinoline	ND	13000
1-Methylnaphthalene	ND	13000
7,12-Dimethylbenz(a)anthracene	ND	13000
Dibenz(a,h)acridine	ND	13000

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	D	25-121
2-Chlorophenol	D	20-130
Phenol-d5	D	24-113
1,2-Dichlorobenzene	D	20-130
Nitrobenzene-d5	D	23-120
2-Fluorobiphenyl	D	30-115
2,4,6-Tribromophenol	D	19-122
Terphenyl-d14	D	18-137

ND = Not Detected
* = These compounds are coeluted.
D = Diluted out.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-16

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	52	25-121
2-Chlorophenol	83	20-130
Phenol-d5	81	24-113
1,2-Dichlorobenzene	97	20-130
Nitrobenzene-d5	50	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	52	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-17

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	82	25-121
2-Chlorophenol	125	20-130
Phenol-d5	128 **	24-113
1,2-Dichlorobenzene	143 **	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	68	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-18

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	63	25-121
2-Chlorophenol	96	20-130
Phenol-d5	101	24-113
1,2-Dichlorobenzene	118	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	75	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	57	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-19

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	67	25-121
2-Chlorophenol	100	20-130
Phenol-d5	102	24-113
1,2-Dichlorobenzene	122	20-130
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	58	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-20

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	62	25-121
2-Chlorophenol	79	20-130
Phenol-d5	92	24-113
1,2-Dichlorobenzene	88	20-130
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	74	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	71	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 06 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-21

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	71	20-130
Phenol-d5	85	24-113
1,2-Dichlorobenzene	86	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	68	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-22

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 2 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	670
Phenol	ND	670
1,3-Dichlorobenzene	ND	670
2-Methylphenol	ND	670
3 and 4-Methylphenol *	ND	670
2,4-Dimethylphenol	ND	670
Naphthalene	ND	670
2-Methylnaphthalene	1000	670
Dimethyl phthalate	ND	670
2,4-Dinitrophenol	ND	3300
4-Nitrophenol	ND	3300
Diethyl phthalate	ND	670
Phenanthrene	ND	670
Anthracene	ND	670
Fluoranthene	ND	670
Pyrene	2600	670
Butyl benzyl phthalate	ND	670
Benzo(a)anthracene	2500	670
Chrysene	5100	670
Bis(2-ethylhexyl)phthalate	ND	670
Di-n-octyl phthalate	ND	670
Benzo(b)fluoranthene	930	670
Benzo(k)fluoranthene	1500	670
Benzo(a)pyrene	3500	670
Indeno(1,2,3-cd)pyrene	ND	670
Dibenz(a,h)anthracene	ND	670

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	1400 #	670
Quinoline	ND	670
1-Methylnaphthalene	ND	670
7,12-Dimethylbenz(a)anthracene	ND	670
Dibenz(a,h)acridine	ND	670

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	45	25-121
2-Chlorophenol	64	20-130
Phenol-d5	78	24-113
1,2-Dichlorobenzene	75	20-130
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	89	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	90	18-137

ND = Not Detected
* = These compounds are coeluted.
# = Estimated value

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-23

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	25-121
2-Chlorophenol	62	20-130
Phenol-d5	75	24-113
1,2-Dichlorobenzene	60	20-130
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	48	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-24

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	50	25-121
2-Chlorophenol	68	20-130
Phenol-d5	80	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-25

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	63	25-121
2-Chlorophenol	81	20-130
Phenol-d5	94	24-113
1,2-Dichlorobenzene	94	20-130
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	79	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	73	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-26

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	510	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	54	25-121
2-Chlorophenol	71	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	84	20-130
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	66	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-27

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	59	25-121
2-Chlorophenol	76	20-130
Phenol-d5	90	24-113
1,2-Dichlorobenzene	92	20-130
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	54	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 01 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-28

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	25-121
2-Chlorophenol	64	20-130
Phenol-d5	74	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	46	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS BLANK SPIKE/BLANK SPIKE DUPLICATE RESULTS

Method 8270

Sample ID

Blank Spike

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: SBS1 11/02/94

Date Collected: N/A
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	BS Concentration (ug/kg)	BS % Rec	QC Limit Recovery
Phenol	2500	N/A	2210	88	26- 90
2-Chlorophenol	2500	N/A	1900	76	25-102
1,4-Dichlorobenzene	1670	N/A	1370	82	28-104
N-Nitroso-di-n-propylamine	1670	N/A	1260	75	41-126
1,2,4-Trichlorobenzene	1670	N/A	1290	77	38-107
4-Chloro-3-methylphenol	2500	N/A	1800	72	26-103
Acenaphthene	1670	N/A	1290	77	31-137
4-Nitrophenol	2500	N/A	1290	52	11-114
2,4-Dinitrotoluene	1670	N/A	1380	83	28- 89
Pentachlorophenol	2500	N/A	1290	52	17-109
Pyrene	1670	N/A	1280	77	35-142

Analyte	Spike Added (ug/kg)	BSD Concentration (ug/kg)	BSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1890	76	16	35 | 26-90
2-Chlorophenol	2500	1640	66	15	50 | 25-102
1,4-Dichlorobenzene	1670	1160	69	17	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1040	62	19	38 | 41-126
1,2,4-Trichlorobenzene	1670	1110	66	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1580	63	13	33 | 26-103
Acenaphthene	1670	1130	68	13	19 | 31-137
4-Nitrophenol	2500	1150	46	11	50 | 11-114
2,4-Dinitrotoluene	1670	1250	75	10	47 | 28-89
Pentachlorophenol	2500	1200	48	7	47 | 17-109
Pyrene	1670	1150	69	11	36 | 35-142

N/A = Not Applicable

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 06.BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII --410460
Lab Sample ID: 94-10-323-21

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	2380	95*	26- 90
2-Chlorophenol	2500	ND	2100	84	25-102
1,4-Dichlorobenzene	1670	ND	1510	90	28-104
N-Nitroso-di-n-propylamine	1670	ND	1420	85	41-126
1,2,4-Trichlorobenzene	1670	ND	1400	84	38-107
4-Chloro-3-methylphenol	2500	ND	1990	80	26-103
Acenaphthene	1670	ND	1450	87	31-137
4-Nitrophenol	2500	ND	1560	62	11-114
2,4-Dinitrotoluene	1670	ND	1560	93*	28- 89
Pentachlorophenol	2500	ND	2050	82	17-109
Pyrene	1670	ND	1370	82	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	2090	84	13	35 | 26-90
2-Chlorophenol	2500	1850	74	13	50 | 25-102
1,4-Dichlorobenzene	1670	1290	77	16	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1320	79	7	38 | 41-126
1,2,4-Trichlorobenzene	1670	1210	72	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1730	69	14	33 | 26-103
Acenaphthene	1670	1300	78	11	19 | 31-137
4-Nitrophenol	2500	1470	59	6	50 | 11-114
2,4-Dinitrotoluene	1670	1480	89	5	47 | 28-89
Pentachlorophenol	2500	1400	56	38	47 | 17-109
Pyrene	1670	1170	70	16	36 | 35-142

ND = Not Detected
* = Outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS BLANK SPIKE/BLANK SPIKE DUPLICATE RESULT

Method 8270

Sample ID

Blank Spike

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: SBS1 11/05/94

Date Collected: N/A
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	BS Concentration (ug/kg)	BS % Rec	QC Limit Recovery
Phenol	2500	N/A	1880	75	26- 90
2-Chlorophenol	2500	N/A	2290	92	25-102
1,4-Dichlorobenzene	1670	N/A	1610	96	28-104
N-Nitroso-di-n-propylamine	1670	N/A	1150	69	41-126
1,2,4-Trichlorobenzene	1670	N/A	1360	81	38-107
4-Chloro-3-methylphenol	2500	N/A	1670	67	26-103
Acenaphthene	1670	N/A	1330	80	31-137
4-Nitrophenol	2500	N/A	1250	50	11-114
2,4-Dinitrotoluene	1670	N/A	1340	80	28- 89
Pentachlorophenol	2500	N/A	1490	60	17-109
Pyrene	1670	N/A	1020	61	35-142

Analyte	Spike Added (ug/kg)	BSD Concentration (ug/kg)	BSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	2470	99 *	27	35 | 26-90
2-Chlorophenol	2500	3000	120 *	27	50 | 25-102
1,4-Dichlorobenzene	1670	2110	126 *	27	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1430	86	22	38 | 41-126
1,2,4-Trichlorobenzene	1670	1580	95	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1920	77	14	33 | 26-103
Acenaphthene	1670	1400	84	5	19 | 31-137
4-Nitrophenol	2500	1400	56	11	50 | 11-114
2,4-Dinitrotoluene	1670	1480	89	10	47 | 28-89
Pentachlorophenol	2500	1640	66	10	47 | 17-109
Pyrene	1670	1090	65	7	36 | 35-142

N/A = Not Applicable
* = Outside QC limits.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 05 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: GII -- 410460
Lab Sample ID: 94-10-323-13

Date Collected: 10/25/94
Date Extracted: 11/05/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1960	78	26- 90
2-Chlorophenol	2500	ND	2380	95	25-102
1,4-Dichlorobenzene	1670	ND	1630	98	28-104
N-Nitroso-di-n-propylamine	1670	ND	1240	74	41-126
1,2,4-Trichlorobenzene	1670	ND	1360	81	38-107
4-Chloro-3-methylphenol	2500	ND	1740	70	26-103
Acenaphthene	1670	ND	1410	84	31-137
4-Nitrophenol	2500	ND	1450	58	11-114
2,4-Dinitrotoluene	1670	ND	1500	90 *	28- 89
Pentachlorophenol	2500	ND	1870	75	17-109
Pyrene	1670	ND	1180	71	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1800	72	9	35 | 26-90
2-Chlorophenol	2500	2220	89	7	50 | 25-102
1,4-Dichlorobenzene	1670	1510	90	8	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1100	66	12	38 | 41-126
1,2,4-Trichlorobenzene	1670	1330	80	2	23 | 38-107
4-Chloro-3-methylphenol	2500	1660	66	5	33 | 26-103
Acenaphthene	1670	1400	84	1	19 | 31-137
4-Nitrophenol	2500	1430	57	1	50 | 11-114
2,4-Dinitrotoluene	1670	1460	87	3	47 | 28-89
Pentachlorophenol	2500	1730	69	8	47 | 17-109
Pyrene	1670	1150	69	3	36 | 35-142

ND = Not Detected
* = Outside QC limits.

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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 1 OF 4

ATI LAB I.D. 4/0460

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR ATI USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 09 ZOI 1.0	10-25	900	SOIL	01										X	X			X	X														3
LTA 09 WTZ 3.0	10-25	910	SOIL	02										X	X			X	X														3
LTA 09 WTZ 5.0	10-25	945	SOIL	03										X	X			X	X														3
LTA 09 BTZ 10.0	10-25	1000	SOIL	04														X	X														2
LTA 09 BTZ 15.0	10-25	1005	SOIL	05														X	X														2
LTA 09 BTZ 20.0	10-25	1015	SOIL	06														X	X														2
LTA 09 BTZ 25.0	10-25	1030	SOIL	07														X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA Character	CUSTODY SEALS	(Y) N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:17am	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: D. Lutter Time: 1305
Printed Name: Date:	Printed Name: Date:	Printed Name: Dianne Lutter Date: 10/27/94
Company:	Company:	Analytical Technologies, Inc.

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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 2 OF 4

ATI LAB I.D. 110460

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 05 ZOI 1.0	10-25	1115	SOIL	08										X	X			X	X														3
LTA 05 WTZ 3.0	10-25	1115	SOIL	09										X	X			X	X														3
LTA 05 WTZ 5.0	10-25	1124	SOIL	10										X	X			X	X														3
LTA 05 BTZ 10.0	10-25	1133	SOIL	11														X	X														2
LTA 05 BTZ 15.0	10-25	1140	SOIL	12														X	X														2
LTA 05 BTZ 20.0	10-25	1149	SOIL	13														X	X														2
LTA 05 BTZ 25.0	10-25	1154	SOIL	14														X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA Character	CUSTODY SEALS	(Y) N / NA
P.O. NO.:		RECEIVED INTACT	Y
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:50	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1325
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Butler Date: 10/27/94
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 3 OF 4

ATI LAB I.D. 410460

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 06 ZOI 1.0	10-25	1430	SOIL	15										X	X			X	X														3
LTA 06 WTZ 3.0	10-25	1432	SOIL	16										X	X			X	X														3
LTA 06 WTZ 5.0	10-25	1435	SOIL	17										X	X			X	X														3
LTA 06 BTZ 10.0	10-25	1442	SOIL	18														X	X														2
LTA 06 BTZ 15.0	10-25	1448	SOIL	19														X	X														2
LTA 06 BTZ 20.0	10-25	1500	SOIL	20														X	X														2
LTA 06 BTZ 25.0	10-25	1520	SOIL	21														X	X														2

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	17
CUSTODY SEALS	(Y) N / NA
RECEIVED INTACT	Y
RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Lynn Shelton Time: 10:00	Signature: Time:	Signature: Time:
Printed Name: LYNN SHELTON Date: 10-26-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1305
Printed Name: Date:	Printed Name: Date:	Printed Name: Dianne Little Date: 10/27/94
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

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CHAIN OF CUSTODY

DATE: 10-26-94 PAGE 4 OF 4

ATI LAB I.D. 110460

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 01 ZOI 1.0	10-25	1600	SOIL	22										X	X			X	X														3
LTA 01 WTZ 3.0	10-25	1600	SOIL	23										X	X			X	X														3
LTA 01 WTZ 5.0	10-25	1610	SOIL	24										X	X			X	X														3
LTA 01 BTZ 10.0	10-25	1615	SOIL	25														X	X														2
LTA 01 BTZ 15.0	10-25	1640	SOIL	26														X	X														2
LTA 01 BTZ 20.0	10-25	1651	SOIL	27														X	X														2
LTA 01 BTZ 25.0	10-25	1700	SOIL	28														X	X														2
LTA 01 BTZ 15.0D	10-25	1640	SOIL	29															X														
LTA 01 BTZ 25.0 R	10-25	1633	H2O	30															X														3

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	20
CUSTODY SEALS	(Y) N / NA
RECEIVED INTACT	Y
RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company: Phone:	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1305
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: Dianne Cutler 10/27/94
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/27/94 PAGE 1 OF 2

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TCX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)	Pb, % Oil, % Moisture	632/632 MOD	619/619 MOD	610/8310	THN	Total Phosphorus	8240 (TCLP 1311) ZHE	Pb, Chromium	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410460-01	10-25	900	Nonaq	1						X				X	X		X																	1
-02		910		2						X				X	X		X																	1
-03		945		3						X				X	X		X																	1
-08		1115		8						X				X	X		X																	1
-09		1115		9						X				X	X		X																	1
-10		1124		10						X				X	X		X																	1
-15		1430		15						X				X	X		X																	1
-16		1432		16						X				X	X		X																	1
-17		1435		17						X				X	X		X																	1

PROJECT INFORMATION

PROJECT NUMBER: 410460

PROJECT NAME: GH

QC LEVEL: STD. IV

QC REQUIRED: MS MSD BLANK

TAT: STANDARD RUSH!

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	9
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	410460

SAMPLES SENT TO:

SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	X
FIBERQUANT	

RELINQUISHED BY: 1.
Signature: Time: 1730
Printed Name: Date: 10/27/94
Analytical Technologies, Inc. Albuquerque
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company:

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time: 1530
Printed Name: Date:
Company: 10/28/94

DUE DATE: 11/10

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

WO# LK 1082

AnalyticalTe nologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/27/94 PAGE 2 OF 2

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MEAS)	Pb, % Oil, % Moisture	632/532 MOD	619/619 MOD	610/8310	TKN	Total Phosphorus	8240 (TCLP 1311) ZHE	Pb, Chromium	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410460 -22	10-25	1600	Nonag	22						X				X	X		X																	1
-23	↓	1600	↓	23						X				X	X		X																	1
-24	↓	1610	↓	24						X				X	X		X																	1

PROJECT INFORMATION	
PROJECT NUMBER:	410460
PROJECT NAME:	GEI
QC LEVEL:	STD. IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	3
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	410460

DUE DATE: 11/10

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

LK1842

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	X
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: D. Butler Time: 1730	Signature: Time:
Printed Name: Diane Butler Date: 10/27/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company:
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 5:30
Printed Name: Date:	Printed Name: Date:
Company:	Company: 10/28/94

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

94-10-323

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/27/94 PAGE 1 OF 4

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/532 MOD	619/619 MOD	610/8310		8270 See attached	8240 (~~TCLP~~ ~~TPH~~ ~~BTEX~~ Lists (Total)	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)	NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
4104460-01	10-25	900	Nonaq	01											X	X															
-02		910		02											X	X															
-03		945		03											X	X															
-04		1000		04											X	X															
-05		1005		05											X	X															
-06		1015		06											X	X															
-07		1030		07											X	X															
-08		1115		08											X	X															
-09		1115		09											X	X															

IVM
1 EXT

PROJECT INFORMATION	
PROJECT NUMBER:	4104460
PROJECT NAME:	GTI
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

DUE DATE: 11/10

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

WATT LK1081

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1730	Signature: Time:
Printed Name: Date 10/27/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: AIRBORNE
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 11:30
Printed Name: Date:	Printed Name: L. Kelly Date: 10-28-94
Company: AIRBORNE	Company: ATI

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc. Albuquerque, NM

94-10-323

Chain of Custody

DATE 10/27/94 PAGE 2 OF 4

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~TCLP 1311 ZHE~~		Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O_2, CO_2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410460 -10	10-25	1124	Nonag	10											X	X																		1VM 1EXT
-11		1133		11											X	X																		
-12		1140		12											X	X																		
-13		1149		13											X	X																		
-14		1154		14											X	X																		
-15		1430		15											X	X																		
-16		1432		16											X	X																		
-17		1435		17											X	X																		
-18		1442		18											X	X																		

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER: 410460	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: Time: 1730	Signature: Time:
PROJECT NAME: GTF	CHAIN OF CUSTODY SEALS	FT. COLLINS X	Printed Name: Date: Dianne Letter 10/27/94	Printed Name: Date
QC LEVEL: STD IV	INTACT?	RENTON	Analytical Technologies, Inc. Albuquerque	Company: AIRBORNE
QC REQUIRED: MS MSD BLANK	RECEIVED GOOD COND./COLD	PENSACOLA	RECEIVED BY: (LAB) 1.	RECEIVED BY: (LAB) 2.
TAT: STANDARD RUSH!	LAB NUMBER	PORTLAND	Signature: Time:	Signature: Time: 11:30
DUE DATE: 11/10		PHOENIX	Printed Name: Date:	Printed Name: L. KELLY Date: 10-28-94
RUSH SURCHARGE: 0		FIBERQUANT	Company: AIRBORNE	Company: ATI
CLIENT DISCOUNT: 10 %				

WO#LK1081

See faxed parameters LKA

Analytical Technologies, Inc. Albuquerque, NM

94-10-323

Chain of Custody

DATE 10/27/94 PAGE 3 OF 4

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~TCLP 1311 ZHE~~		Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
4104460 -19	10-25	1448	Nonaq	19											X	X																		1 EXT 1 VM
-20		1500		20											X	X																		
-21		1520		21											X	X																		
-22		1600		22											X	X																		
-23		1600		23											X	X																		
-24		1610		24											X	X																		
-25		1615		25											X	X																		
-26		1640		26											X	X																		
-27		1651		27											X	X																		

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER: 4104460	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: D Lutler Time: 1730	Signature: Time:
PROJECT NAME: GIT	CHAIN OF CUSTODY SEALS	FT. COLLINS X	Printed Name: D Lunnelutler Date 10/27/94	Printed Name: Date
QC LEVEL: STD IV	INTACT?	RENTON	Analytical Technologies, Inc. Albuquerque	Company: AirBorne
QC REQUIRED: MS MSD BLANK	RECEIVED GOOD COND./COLD	PENSACOLA	RECEIVED BY: (LAB) 1.	RECEIVED BY: (LAB) 2.
TAT: STANDARD RUSH!	LAB NUMBER	PORTLAND	Signature: Time:	Signature: Time: 11:30
		PHOENIX	Printed Name: Date:	Printed Name: L. Kelly Date: 10-28-94
DUE DATE: 11/10		FIBERQUANT	Company: AirBorne	Company: ATI
RUSH SURCHARGE: 0				
CLIENT DISCOUNT: 10 %				

~~WO#~~ LK1081

See faxed PARAMeters List

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-323

DATE 10/27/94 PAGE 4 OF 4

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 (TCLP 1311 ZHE)	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410460 - 28	10-25	1700	Nonaq	28											X	X																	1VM 1EXT
-28	↓	1640	Nonaq	29												X																	1VM
-30	↓	1633	AQ	30												X																	3VM

PROJECT INFORMATION	
PROJECT NUMBER:	410460
PROJECT NAME:	GIE
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

DUE DATE: ~~10/11~~ 11/10

RUSH SURCHARGE: ~~0~~

CLIENT DISCOUNT: 10 %

WOTH LK1081

See attached (faxed) parameter list

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1730
Printed Name: Dianne Wetter Date: 10/27/94
Analytical Technologies, Inc. Albuquerque

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company: AIRBORNE

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company: AIRBORNE

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 11:30
Printed Name: L. Kelly Date: 10-28-94
Company: ATF

Analytical Technologies, Inc.

CLIENT : GIANT REFINING CO. DATE RECEIVED : 10/28/94
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER REPORT DATE : 11/22/94

ATI ID: 410469

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	LTA 14 ZOI 1.0	NON-AQ	10/27/94
02	LTA 14 WTZ 3.0	NON-AQ	10/27/94
03	LTA 14 WTZ 5.0	NON-AQ	10/27/94
04	LTA 14 BTZ 10.0	NON-AQ	10/27/94
05	LTA 14 BTZ 15.0	NON-AQ	10/27/94
06	LTA 14 BTZ 20.0	NON-AQ	10/27/94
07	LTA 14 BTZ 25.0	NON-AQ	10/27/94
08	LTA 11 ZOI 1.0	NON-AQ	10/26/94
09	LTA 11 WTZ 3.0	NON-AQ	10/26/94
10	LTA 11 WTZ 5.0	NON-AQ	10/26/94
11	LTA 11 BTZ 10.0	NON-AQ	10/26/94
12	LTA 11 BTZ 15.0	NON-AQ	10/26/94
3	LTA 11 BTZ 20.0	NON-AQ	10/26/94
14	LTA 11 BTZ 25.0	NON-AQ	10/26/94
15	LTA 12 ZOI 1.0	NON-AQ	10/27/94
16	LTA 12 WTZ 3.0	NON-AQ	10/27/94
17	LTA 12 WTZ 5.0	NON-AQ	10/27/94
18	LTA 12 BTZ 10.0	NON-AQ	10/27/94
19	LTA 12 BTZ 15.0	NON-AQ	10/27/94
20	LTA 12 BTZ 20.0	NON-AQ	10/27/94
21	LTA 12 BTZ 25.0	NON-AQ	10/27/94
22	LTA 12 ZOI 1.0 E	AQUEOUS	10/27/94
23	LTA 12 BTZ 20.0 D	NON-AQ	10/27/94
24	LTA 10 ZOI 1.0	NON-AQ	10/26/94
25	LTA 10 WTZ 3.0	NON-AQ	10/26/94
26	LTA 10 WTZ 5.0	NON-AQ	10/26/94
27	LTA 10 BTZ 10.0	NON-AQ	10/26/94
28	LTA 10 BTZ 15.0	NON-AQ	10/26/94
29	LTA 10 BTZ 20.0	NON-AQ	10/26/94
30	LTA 10 BTZ 25.0	NON-AQ	10/26/94
31	LTA 13 ZOI 1.0	NON-AQ	10/26/94
32	LTA 13 WTZ 3.0	NON-AQ	10/26/94
33	LTA 13 WTZ 5.0	NON-AQ	10/26/94
34	LTA 13 BTZ 10.0	NON-AQ	10/26/94
35	LTA 13 BTZ 15.0	NON-AQ	10/26/94

Analytical Technologies, Inc.

CLIENT : GIANT REFINING CO. DATE RECEIVED : 10/28/94

PROJECT # : (NONE)

PROJECT NAME : LTA CHARACTER REPORT DATE : 11/22/94

ATI ID: 410469

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
36	LTA 13 BTZ 20.0	NON-AQ	10/26/94
37	LTA 13 BTZ 25.0	NON-AQ	10/26/94
38	LTA 13 BTZ 10.0 D	NON-AQ	10/26/94
39	LTA 03 ZOI 1.0	NON-AQ	10/26/94
40	LTA 03 WTZ 3.0	NON-AQ	10/26/94
41	LTA 03 WTZ 5.0	NON-AQ	10/26/94
42	LTA 03 BTZ 10.0	NON-AQ	10/26/94
43	LTA 03 BTZ 15.0	NON-AQ	10/26/94
44	LTA 03 BTZ 20.0	NON-AQ	10/26/94
45	LTA 03 BTZ 25.0	NON-AQ	10/26/94
46	LTA 02 ZOI 1.0	NON-AQ	10/26/94
47	LTA 02 WTZ 3.0	NON-AQ	10/26/94
48	LTA 02 WTZ 5.0	NON-AQ	10/26/94
9	LTA 02 BTZ 10.0	NON-AQ	10/26/94
50	LTA 02 BTZ 15.0	NON-AQ	10/26/94
51	LTA 02 BTZ 20.0	NON-AQ	10/26/94
52	LTA 02 BTZ 20.0T	NON-AQ	10/26/94

---TOTALS---

MATRIX	#SAMPLES
NON-AQ	51
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

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

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	22
PH (EPA 150.1)	UNITS	4.8
KJELDAHL NITROGEN (351.2)	MG/L	<0.2
PHOSPHORUS, TOTAL (365.3)	MG/L	<0.05

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	01	02	03	08	09
% MOISTURE	%	18.8	14.2	12.5	20.1	19.4
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	<20	<20	<20	<20
PH (EPA 9040/9045)	UNITS	8.8	8.8	9.2	8.4	8.6
KJELDAHL NITROGEN (351.2M)	MG/KG	400	300	320	380	260
PHOSPHORUS, TOTAL (365.3M)	MG/KG	150	240	190	170	220

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	10	15	16	17	24
% MOISTURE	%	14.5	21.1	17.5	13.3	23.9
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	<20	<20	<20	350
PH (EPA 9040/9045)	UNITS	8.9	8.5	8.5	9.1	8.0
KJELDAHL NITROGEN (351.2M)	MG/KG	120	160	140	99	130
PHOSPHORUS, TOTAL (365.3M)	MG/KG	280	170	190	220	190

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	25	26	31	32	33
% MOISTURE	%	18.9	17.0	18.9	19.2	18.0
OIL AND GREASE, IR (EPA 413.	MG/KG	<20	<20	100	70	<20
PH (EPA 9040/9045)	UNITS	8.0	7.8	8.3	8.5	8.5
KJELDAHL NITROGEN (351.2M)	MG/KG	130	450	400	300	420
PHOSPHORUS, TOTAL (365.3M)	MG/KG	250	160	180	220	220

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	39	40	41	46	47
% MOISTURE	%	20.5	15.9	13.2	15.3	15.0
OIL AND GREASE, IR (EPA 413.	MG/KG	470	<20	<20	6200	<20
PH (EPA 9040/9045)	UNITS	7.7	8.3	8.1	8.0	8.4
KJELDAHL NITROGEN (351.2M)	MG/KG	540	120	82	370	200
PHOSPHORUS, TOTAL (365.3M)	MG/KG	170	180	330	140	180

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	48
% MOISTURE	%	14.6
OIL AND GREASE, IR (EPA 413.	MG/KG	<20
PH (EPA 9040/9045)	UNITS	8.4
KJELDAHL NITROGEN (351.2M)	MG/KG	330
PHOSPHORUS, TOTAL (365.3M)	MG/KG	300

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

ATI I.D. : 410469

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
% MOISTURE	%	41046908	20.1	20.8	3	NA	NA	NA
% MOISTURE	%	41046932	19.2	19.6	2	NA	NA	NA
% MOISTURE	%	41046948	14.6	14.7	0.7	NA	NA	NA
OIL AND GREASE, IR	MG/KG	41046902	<20	<20	NA	200	190	105
OIL AND GREASE, IR	MG/KG	41046917	<20	<20	NA	200	190	105
OIL AND GREASE, IR	MG/KG	41149812	<20	<20	NA	210	200	105
PH	UNITS	41046922	4.8	4.8	0	NA	NA	NA
PH	UNITS	41046909	8.6	8.6	0	NA	NA	NA
PH	UNITS	41046933	8.5	8.6	1	NA	NA	NA
PH	UNITS	41046948	8.4	8.4	0	NA	NA	NA
TOTAL KJELDAHL NITROGE	MG/L	41149905	18	19	5	88	80	88
TOTAL KJELDAHL NITROGE	MG/KG	41046902	300	270	11	820	500	104
TOTAL KJELDAHL NITROGE	MG/KG	41046916	140	160	13	610	500	94
TAL KJELDAHL NITROGE	MG/KG	41046932	300	290	3	1120	750	109
PHOSPHORUS,TOTAL	MG/L	41155007	0.21	0.21	0	0.73	0.50	104
PHOSPHORUS,TOTAL	MG/KG	41046022	130	130	0	280	140	107
PHOSPHORUS,TOTAL	MG/KG	41046924	190	190	0	350	160	100
PHOSPHORUS,TOTAL	MG/KG	41046947	180	170	6	360	180	100

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

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

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	01	02	03	08	09
CHROMIUM (EPA 6010)	MG/KG	8.2	8.6	3.4	6.1	4.5
LEAD (EPA 6010)	MG/KG	11	9	11	10	9

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	10	15	16	17	24
CHROMIUM (EPA 6010)	MG/KG	4.9	3.4	2.7	3.4	7.2
LEAD (EPA 6010)	MG/KG	9	10	8	8	10

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94

REPORT DATE : 11/22/94

PARAMETER	UNITS	25	26	31	32	33
CHROMIUM (EPA 6010)	MG/KG	3.0	2.1	1.9	2.9	3.0
LEAD (EPA 6010)	MG/KG	5	7	7	7	8

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94
REPORT DATE : 11/22/94

PARAMETER	UNITS	39	40	41	46	47
CHROMIUM (EPA 6010)	MG/KG	6.4	2.2	1.6	127	2.4
LEAD (EPA 6010)	MG/KG	8	9	7	54	9

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 410469

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

DATE RECEIVED : 10/28/94

REPORT DATE : 11/22/94

PARAMETER	UNITS	48
CHROMIUM (EPA 6010)	MG/KG	2.2
LEAD (EPA 6010)	MG/KG	9

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

CLIENT : GIANT REFINING CO.
PROJECT # : (NONE)
PROJECT NAME : LTA CHARACTER

ATI I.D. : 410469

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM	MG/KG	41046003	3.1	3.3	6	44.8	50.0	83
CHROMIUM	MG/KG	41046902	8.6	10.3	18	49.0	50.0	81
CHROMIUM	MG/KG	41046017	3.1	3.8	20	44.5	50.0	83
CHROMIUM	MG/KG	41046916	2.7	2.5	8	47.0	50.0	89
CHROMIUM	MG/KG	41046948	2.2	2.6	17	42.0	50.0	80
LEAD	MG/KG	41046003	7	9	25	48	50	82
LEAD	MG/KG	41046902	9	7	25	47	50	76*
LEAD	MG/KG	41046017	7	7	0	48	50	82
LEAD	MG/KG	41046916	8	8	0	48	50	80
LEAD	MG/KG	41046948	9	9	0	49	50	80

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

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

* Result out of limits due to sample matrix interference

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: SRB2 11/02/94

Date Collected: N/A
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	9	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	100	81 - 117
Bromofluorobenzene	97	74 - 121

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: SRB1 11/03/94

Date Collected: N/A
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	4 J	5
Dichloromethane	4 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	99	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: SRB2 11/03/94

Date Collected: N/A
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	4 J	5
Dichloromethane	3 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	100	81 - 117
Bromofluorobenzene	97	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: SRB1 11/04/94

Date Collected: N/A
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	4 J	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	107	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	96	74 - 121

ND = Not Detected
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: SRB1 11/08/94

Date Collected: N/A
Date Analyzed: 11/08/94

Sample Matrix: Soil
Sample Weight: 5 g

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	ND	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
Dibromofluoromethane	101	80 - 120
Toluene-d8	103	81 - 117
Bromofluorobenzene	100	74 - 121

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-01

Date Collected: 10/27/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	21 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-02

Date Collected: 10/27/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8 B	5
Dichloromethane	20 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-03

Date Collected: 10/27/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	11 B	5
Dichloromethane	23 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	115	81 - 117
Bromofluorobenzene	83	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-04

Date Collected: 10/27/94
Date Analyzed: 11/02/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	18 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-05

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	20 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-06

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	16 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 14 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-07

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	16 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-08

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	112	81 - 117
Bromofluorobenzene	82	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-09

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	5 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-10

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-11

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	5 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-12

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-13

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	12 B	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	100	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical **Technologies,** Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 11 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-14

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10 B	5
Dichloromethane	ND	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	96	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-15

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	5 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-16

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	ND	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-17

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-18

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	5 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-19

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-20

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	7 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 BTZ 20.0D

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-22

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	22 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 12 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-21

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	25 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-23

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	23 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	109	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-24

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	19 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	98	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-25

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	20 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	95	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-26

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	18 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-27

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	20 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-28

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	22 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 10 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-29

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	24 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	96	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-30

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	29 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	97	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-31

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	10 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-32

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5 B	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-33

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 BTZ 10.0D

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-37

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7 B	5
Dichloromethane	6 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	96	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-34

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	11 B	5
Dichloromethane	12 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	93	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-35

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	12 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	104	70 - 121
Toluene-d8	110	81 - 117
Bromofluorobenzene	88	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 13 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-36

Date Collected: 10/26/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	10 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	102	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-38

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	9 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	113	81 - 117
Bromofluorobenzene	86	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-39

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9 B	5
Dichloromethane	8 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	103	70 - 121
Toluene-d8	115	81 - 117
Bromofluorobenzene	82	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-40

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6 B	5
Dichloromethane	12 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	102	70 - 121
Toluene-d8	113	81 - 117
Bromofluorobenzene	87	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-41

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	8	5
Dichloromethane	13 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	102	70 - 121
Toluene-d8	106	81 - 117
Bromofluorobenzene	91	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-42

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	104	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	95	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-43

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	ND	5
Dichloromethane	11 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	102	70 - 121
Toluene-d8	104	81 - 117
Bromofluorobenzene	94	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 03 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-44

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	12 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	105	70 - 121
Toluene-d8	107	81 - 117
Bromofluorobenzene	90	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-45

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	8	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	19	5
Dichloromethane	28 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	120 *	81 - 117
Bromofluorobenzene	77	74 - 121

ND = Not Detected
B = Analyte found in Blank
* = Out of Limits

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-46

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	33 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	101	70 - 121
Toluene-d8	108	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-47

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	5	5
Dichloromethane	37 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	89	70 - 121
Toluene-d8	111	81 - 117
Bromofluorobenzene	84	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-48

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	6	5
Dichloromethane	31 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	89	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	92	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-49

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	10	5
Dichloromethane	33 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	92	70 - 121
Toluene-d8	105	81 - 117
Bromofluorobenzene	89	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-50

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	9	5
Dichloromethane	27 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	92	70 - 121
Toluene-d8	103	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE ORGANICS

Method 8240

Sample ID

LTA 02 BTZ 20.0T

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-51

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	5
2-Butanone (MEK)	ND	10
Carbon Disulfide	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,4-Dioxane	ND	500
Ethylbenzene	ND	5
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
Ethylene Dibromide	ND	5
Acetone	7	5
Dichloromethane	26 B	5
Benzyl Alcohol	ND	5

SURROGATE RECOVERIES

Analyte	% Recovery	%Rec Limits
1,2-Dichloroethane-d4	94	70 - 121
Toluene-d8	102	81 - 117
Bromofluorobenzene	93	74 - 121

ND = Not Detected
B = Analyte found in Blank

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

LTA 12 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-18

Date Collected: 10/27/94
Date Analyzed: 11/03/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	45.4	91	59-172
Trichloroethene	50.0	ND	55.0	110	62-137
Benzene	50.0	ND	44.8	90	60-133
Toluene	50.0	ND	47.1	94	59-139
Chlorobenzene	50.0	ND	46.0	92	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	48.1	96	6	22 | 59-172
Trichloroethene	50.0	61.0	122	10	24 | 62-137
Benzene	50.0	46.9	94	5	21 | 60-133
Toluene	50.0	48.3	97	3	21 | 59-139
Chlorobenzene	50.0	48.0	96	4	21 | 66-142

ND = Not Detected

Analytical Technologies, Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

LTA 03 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-335-40

Date Collected: 10/26/94
Date Analyzed: 11/04/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	51.6	103	59-172
Trichloroethene	50.0	ND	47.2	94	62-137
Benzene	50.0	ND	49.0	98	60-133
Toluene	50.0	ND	50.0	100	59-139
Chlorobenzene	50.0	ND	46.7	93	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	51.2	102	1	22 | 59-172
Trichloroethene	50.0	46.6	93	1	24 | 62-137
Benzene	50.0	47.8	96	3	21 | 60-133
Toluene	50.0	49.4	99	1	21 | 59-139
Chlorobenzene	50.0	45.1	90	3	21 | 66-142

ND = Not Detected

Analytical **Technologies,** Inc.

VOLATILE MATRIX SPIKE RECOVERY

Method 8240

Sample ID

In House

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project ID: 410469
Lab Sample ID: 94-10-292-01

Date Collected: 10/25/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Sample Weight: 5 g
Results are reported on a wet weight basis.

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
1,1-Dichloroethene	50.0	ND	49.4	99	59-172
Trichloroethene	50.0	ND	50.1	100	62-137
Benzene	50.0	ND	47.4	95	60-133
Toluene	50.0	ND	47.3	95	59-139
Chlorobenzene	50.0	ND	46.4	93	66-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
1,1-Dichloroethene	50.0	52.7	105	7	22 | 59-172
Trichloroethene	50.0	50.8	102	1	24 | 62-137
Benzene	50.0	47.2	94	0	21 | 60-133
Toluene	50.0	47.6	95	1	21 | 59-139
Chlorobenzene	50.0	46.3	93	0	21 | 66-142

ND = Not Detected

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SRB1 11/02/94

Date Collected: N/A
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	66	25-121
2-Chlorophenol	86	20-130
Phenol-d5	104	24-113
1,2-Dichlorobenzene	104	20-130
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	85	30-115
2,4,6-Tribromophenol	67	19-122
Terphenyl-d14	87	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SRB1 11/03/94

Date Collected: N/A
Date Extracted: 11/03/94
Date Analyzed: 11/06/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	74	20-130
Phenol-d5	88	24-113
1,2-Dichlorobenzene	88	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	67	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SRB1 11/04/94

Date Collected: N/A
Date Extracted: 11/04/94
Date Analyzed: 11/07/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	66	25-121
2-Chlorophenol	73	20-130
Phenol-d5	74	24-113
1,2-Dichlorobenzene	81	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	65	19-122
Terphenyl-d14	71	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SRB1 11/08/94

Date Collected: N/A
Date Extracted: 11/08/94
Date Analyzed: 11/10/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	67	25-121
2-Chlorophenol	75	20-130
Phenol-d5	77	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

Reagent Blank RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SRB1 11/10/94 RX

Date Collected: N/A
Date Extracted: 11/10/94
Date Analyzed: 11/14/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	140 J	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	63	20-130
Phenol-d5	65	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	56	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB1 11/03/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/05/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB2 11/03/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/05/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB1 11/04/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/06/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	190 J	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.
J = Estimated value, analyte found below detection limit

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB2 11/04/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/06/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB1 11/05/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/07/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB2 11/05/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/07/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB 11/09/94

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/10/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	87 J	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.
J = Estimated value, analyte found below detection limit.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID
GPC
Reagent Blank RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: GPCRB 11/11/94 RX

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 11/14/94

Sample Matrix: Methylene Chloride
Cleanup: GPC

Sample Weight: N/A
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	N/A	25-121
2-Chlorophenol	N/A	20-130
Phenol-d5	N/A	24-113
1,2-Dichlorobenzene	N/A	20-130
Nitrobenzene-d5	N/A	23-120
2-Fluorobiphenyl	N/A	30-115
2,4,6-Tribromophenol	N/A	19-122
Terphenyl-d14	N/A	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-08

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	64	20-130
Phenol-d5	67	24-113
1,2-Dichlorobenzene	65	20-130
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	71	19-122
Terphenyl-d14	76	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-09

Date Collected: 10/26/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	68	20-130
Phenol-d5	77	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	50	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-10

Date Collected: 10/26/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	52	25-121
2-Chlorophenol	69	20-130
Phenol-d5	80	24-113
1,2-Dichlorobenzene	77	20-130
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	66	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-11

Date Collected: 10/26/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	54	25-121
2-Chlorophenol	72	20-130
Phenol-d5	80	24-113
1,2-Dichlorobenzene	80	20-130
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-12

Date Collected: 10/26/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	71	20-130
Phenol-d5	74	24-113
1,2-Dichlorobenzene	66	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	47	19-122
Terphenyl-d14	67	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-13

Date Collected: 10/26/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	61	25-121
2-Chlorophenol	77	20-130
Phenol-d5	78	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	50	19-122
Terphenyl-d14	70	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 11 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-14

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	61	25-121
2-Chlorophenol	79	20-130
Phenol-d5	92	24-113
1,2-Dichlorobenzene	87	20-130
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	75	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	71	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-01

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	72	20-130
Phenol-d5	51	24-113
1,2-Dichlorobenzene	41	20-130
Nitrobenzene-d5	74	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	36	19-122
Terphenyl-d14	70	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-02

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	58	25-121
2-Chlorophenol	77	20-130
Phenol-d5	90	24-113
1,2-Dichlorobenzene	82	20-130
Nitrobenzene-d5	74	23-120
2-Fluorobiphenyl	74	30-115
2,4,6-Tribromophenol	59	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-03

Date Collected: 10/27/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	61	25-121
2-Chlorophenol	70	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	66	20-130
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	62	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-04

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	75	20-130
Phenol-d5	85	24-113
1,2-Dichlorobenzene	87	20-130
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-05

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	68	20-130
Phenol-d5	81	24-113
1,2-Dichlorobenzene	81	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	55	19-122
Terphenyl-d14	68	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 14 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-06

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	71	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	86	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

SEMIVOLATILE ORGANICS

Method 8270

Analytical **Technologies,** Inc.

Sample ID

LTA 14 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-07

Date Collected: 10/27/94
Date Extracted: 11/02/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	73	20-130
Phenol-d5	83	24-113
1,2-Dichlorobenzene	82	20-130
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-15

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	51	25-121
2-Chlorophenol	70	20-130
Phenol-d5	83	24-113
1,2-Dichlorobenzene	73	20-130
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	51	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-16

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	74	20-130
Phenol-d5	89	24-113
1,2-Dichlorobenzene	83	20-130
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	68	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-17

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	73	20-130
Phenol-d5	81	24-113
1,2-Dichlorobenzene	75	20-130
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	71	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-18

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	75	20-130
Phenol-d5	89	24-113
1,2-Dichlorobenzene	91	20-130
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	68	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-32

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	72	20-130
Phenol-d5	85	24-113
1,2-Dichlorobenzene	79	20-130
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	55	19-122
Terphenyl-d14	73	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-33

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	NS	25-121
2-Chlorophenol	NS	20-130
Phenol-d5	NS	24-113
1,2-Dichlorobenzene	NS	20-130
Nitrobenzene-d5	NS	23-120
2-Fluorobiphenyl	NS	30-115
2,4,6-Tribromophenol	NS	19-122
Terphenyl-d14	NS	18-137

ND = Not Detected
* = These compounds are coeluted.
NS = Not Spiked

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 BTZ 10.0 RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-33 RX

Date Collected: 10/26/94
Date Extracted: 11/08/94
Date Analyzed: 11/10/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	1700	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	40	25-121
2-Chlorophenol	46	20-130
Phenol-d5	47	24-113
1,2-Dichlorobenzene	49	20-130
Nitrobenzene-d5	43	23-120
2-Fluorobiphenyl	45	30-115
2,4,6-Tribromophenol	43	19-122
Terphenyl-d14	42	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-34

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	42	25-121
2-Chlorophenol	55	20-130
Phenol-d5	67	24-113
1,2-Dichlorobenzene	63	20-130
Nitrobenzene-d5	51	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	39	19-122
Terphenyl-d14	54	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-35

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	49	25-121
2-Chlorophenol	74	20-130
Phenol-d5	74	24-113
1,2-Dichlorobenzene	85	20-130
Nitrobenzene-d5	46	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	62	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-36

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	60	25-121
2-Chlorophenol	70	20-130
Phenol-d5	71	24-113
1,2-Dichlorobenzene	74	20-130
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	68	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-38

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 4 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	1300
Phenol	ND	1300
1,3-Dichlorobenzene	ND	1300
2-Methylphenol	ND	1300
3 and 4-Methylphenol *	ND	1300
2,4-Dimethylphenol	ND	1300
Naphthalene	ND	1300
2-Methylnaphthalene	ND	1300
Dimethyl phthalate	ND	1300
2,4-Dinitrophenol	ND	6700
4-Nitrophenol	ND	6700
Diethyl phthalate	ND	1300
Phenanthrene	ND	1300
Anthracene	ND	1300
Fluoranthene	ND	1300
Pyrene	ND	1300
Butyl benzyl phthalate	ND	1300
Benzo(a)anthracene	ND	1300
Chrysene	3100	1300
Bis(2-ethylhexyl)phthalate	ND	1300
Di-n-octyl phthalate	ND	1300
Benzo(b)fluoranthene	ND	1300
Benzo(k)fluoranthene	ND	1300
Benzo(a)pyrene	ND	1300
Indeno(1,2,3-cd)pyrene	ND	1300
Dibenz(a,h)anthracene	ND	1300

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	1300
Quinoline	ND	1300
1-Methylnaphthalene	ND	1300
7,12-Dimethylbenz(a)anthracene	ND	1300
Dibenz(a,h)acridine	ND	1300

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	49	25-121
2-Chlorophenol	60	20-130
Phenol-d5	64	24-113
1,2-Dichlorobenzene	64	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	65	19-122
Terphenyl-d14	74	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-39

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	64	20-130
Phenol-d5	66	24-113
1,2-Dichlorobenzene	65	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-40

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	61	25-121
2-Chlorophenol	71	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	69	20-130
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-41

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	66	20-130
Phenol-d5	68	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-42

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	66	20-130
Phenol-d5	62	24-113
1,2-Dichlorobenzene	66	20-130
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-43

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	56	25-121
2-Chlorophenol	65	20-130
Phenol-d5	67	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	62	19-122
Terphenyl-d14	61	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 03 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-44

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	47	25-121
2-Chlorophenol	58	20-130
Phenol-d5	61	24-113
1,2-Dichlorobenzene	63	20-130
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-45

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/09/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 4 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	1300
Phenol	ND	1300
1,3-Dichlorobenzene	ND	1300
2-Methylphenol	ND	1300
3 and 4-Methylphenol *	ND	1300
2,4-Dimethylphenol	ND	1300
Naphthalene	ND	1300
2-Methylnaphthalene	ND	1300
Dimethyl phthalate	ND	1300
2,4-Dinitrophenol	ND	6700
4-Nitrophenol	ND	6700
Diethyl phthalate	ND	1300
Phenanthrene	ND	1300
Anthracene	ND	1300
Fluoranthene	ND	1300
Pyrene	1500	1300
Butyl benzyl phthalate	ND	1300
Benzo(a)anthracene	ND	1300
Chrysene	5000	1300
Bis(2-ethylhexyl)phthalate	ND	1300
Di-n-octyl phthalate	ND	1300
Benzo(b)fluoranthene	ND	1300
Benzo(k)fluoranthene	ND	1300
Benzo(a)pyrene	ND	1300
Indeno(1,2,3-cd)pyrene	ND	1300
Dibenz(a,h)anthracene	ND	1300

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	1300
Quinoline	ND	1300
1-Methylnaphthalene	ND	1300
7,12-Dimethylbenz(a)anthracene	ND	1300
Dibenz(a,h)acridine	ND	1300

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	15 **	25-121
2-Chlorophenol	19 **	20-130
Phenol-d5	20 **	24-113
1,2-Dichlorobenzene	22	20-130
Nitrobenzene-d5	20 **	23-120
2-Fluorobiphenyl	24 **	30-115
2,4,6-Tribromophenol	16 **	19-122
Terphenyl-d14	23	18-137

ND = Not Detected
* = These compounds are coeluted.
** = Outside QC limits.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-19

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	47	25-121
2-Chlorophenol	64	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	59	20-130
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	49	19-122
Terphenyl-d14	63	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-20

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	25-121
2-Chlorophenol	84	20-130
Phenol-d5	77	24-113
1,2-Dichlorobenzene	73	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	47	19-122
Terphenyl-d14	56	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 12 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-21

Date Collected: 10/27/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	77	20-130
Phenol-d5	88	24-113
1,2-Dichlorobenzene	85	20-130
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	75	30-115
2,4,6-Tribromophenol	52	19-122
Terphenyl-d14	70	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

	Sample ID
Lab Name: Analytical Technologies, Inc.	LTA 10 ZO! 1.0
Client Name: ATI-NM	Date Collected: 10/26/94
Client Project: 410469	Date Extracted: 11/03/94
Lab Sample ID: 94-10-335-23	Date Analyzed: 11/07/94
Sample Matrix: Soil	Sample Weight: 30 g
Cleanup: GPC	Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	51	25-121
2-Chlorophenol	69	20-130
Phenol-d5	77	24-113
1,2-Dichlorobenzene	79	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	49	19-122
Terphenyl-d14	59	18-137

ND = Not Detected

* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 WTZ 3.0

Lab Name: Analytical Technologies. Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-24

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	77	20-130
Phenol-d5	89	24-113
1,2-Dichlorobenzene	84	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	54	19-122
Terphenyl-d14	67	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-25

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	72	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	80	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	66	30-115
2,4,6-Tribromophenol	49	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410-69
Lab Sample ID: 94-10-335-26

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	NS	25-121
2-Chlorophenol	NS	20-130
Phenol-d5	NS	24-113
1,2-Dichlorobenzene	NS	20-130
Nitrobenzene-d5	NS	23-120
2-Fluorobiphenyl	NS	30-115
2,4,6-Tribromophenol	NS	19-122
Terphenyl-d14	NS	18-137

ND = Not Detected
* = These compounds are coeluted.
NS = Not Spiked

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 BTZ 10.0 RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-26 RX

Date Collected: 10/26/94
Date Extracted: 11/10/94
Date Analyzed: 11/14/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	61	20-130
Phenol-d5	63	24-113
1,2-Dichlorobenzene	67	20-130
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	59	19-122
Terphenyl-d14	59	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-27

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	71	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	84	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	48	19-122
Terphenyl-d14	66	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-28

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	52	25-121
2-Chlorophenol	71	20-130
Phenol-d5	83	24-113
1,2-Dichlorobenzene	79	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	48	19-122
Terphenyl-d14	68	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 10 BTZ 25.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-29

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	46	25-121
2-Chlorophenol	60	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	73	20-130
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	58	30-115
2,4,6-Tribromophenol	40	19-122
Terphenyl-d14	58	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 ZOI 1.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-30

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	53	25-121
2-Chlorophenol	71	20-130
Phenol-d5	84	24-113
1,2-Dichlorobenzene	76	20-130
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	52	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 13 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-31

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	46	25-121
2-Chlorophenol	62	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	67	20-130
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	40	19-122
Terphenyl-d14	55	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 WTZ 3.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-46

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	55	25-121
2-Chlorophenol	64	20-130
Phenol-d5	67	24-113
1,2-Dichlorobenzene	65	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	65	19-122
Terphenyl-d14	62	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 WTZ 5.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-47

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	62	25-121
2-Chlorophenol	71	20-130
Phenol-d5	73	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	72	19-122
Terphenyl-d14	65	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-48

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	58	25-121
2-Chlorophenol	67	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	71	20-130
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	60	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-49

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	66	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	70	20-130
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	62	19-122
Terphenyl-d14	60	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 BTZ 20.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-50

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/08/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	57	25-121
2-Chlorophenol	67	20-130
Phenol-d5	69	24-113
1,2-Dichlorobenzene	74	20-130
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	60	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical **Technologies,** Inc.

SEMIVOLATILE ORGANICS

Method 8270

Sample ID

LTA 02 BTZ 20.0T

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-51

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Results (ug/kg)	Detection Limit (ug/kg)
Pyridine	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
3 and 4-Methylphenol *	ND	330
2,4-Dimethylphenol	ND	330
Naphthalene	ND	330
2-Methylnaphthalene	ND	330
Dimethyl phthalate	ND	330
2,4-Dinitrophenol	ND	1700
4-Nitrophenol	ND	1700
Diethyl phthalate	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330

TENTATIVELY IDENTIFIED COMPOUNDS

Benzenethiole	ND	330
Quinoline	ND	330
1-Methylnaphthalene	ND	330
7,12-Dimethylbenz(a)anthracene	ND	330
Dibenz(a,h)acridine	ND	330

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	60	25-121
2-Chlorophenol	69	20-130
Phenol-d5	71	24-113
1,2-Dichlorobenzene	72	20-130
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	64	18-137

ND = Not Detected
* = These compounds are coeluted.

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS BLANK SPIKE/BLANK SPIKE DUPLICATE RESULT

Method 8270

Sample ID

Blank Spike

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: SBS1 11/02/94

Date Collected: N/A
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Sodium Sulfate
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	BS Concentration (ug/kg)	BS % Rec	QC Limit Recovery
Phenol	2500	N/A	2210	88	26- 90
2-Chlorophenol	2500	N/A	1900	76	25-102
1,4-Dichlorobenzene	1670	N/A	1370	82	28-104
N-Nitroso-di-n-propylamine	1670	N/A	1260	75	41-126
1,2,4-Trichlorobenzene	1670	N/A	1290	77	38-107
4-Chloro-3-methylphenol	2500	N/A	1800	72	26-103
Acenaphthene	1670	N/A	1290	77	31-137
4-Nitrophenol	2500	N/A	1290	52	11-114
2,4-Dinitrotoluene	1670	N/A	1380	83	28- 89
Pentachlorophenol	2500	N/A	1290	52	17-109
Pyrene	1670	N/A	1280	77	35-142

Analyte	Spike Added (ug/kg)	BSD Concentration (ug/kg)	BSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1890	76	16	35 | 26-90
2-Chlorophenol	2500	1640	66	15	50 | 25-102
1,4-Dichlorobenzene	1670	1160	69	17	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1040	62	19	38 | 41-126
1,2,4-Trichlorobenzene	1670	1110	66	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1580	63	13	33 | 26-103
Acenaphthene	1670	1130	68	13	19 | 31-137
4-Nitrophenol	2500	1150	46	11	50 | 11-114
2,4-Dinitrotoluene	1670	1250	75	10	47 | 28-89
Pentachlorophenol	2500	1200	48	7	47 | 17-109
Pyrene	1670	1150	69	11	36 | 35-142

N/A = Not Applicable

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

In House

Lab Name: Analytical Technologies. Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-323-21

Date Collected: 10/25/94
Date Extracted: 11/02/94
Date Analyzed: 11/05/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	2380	95*	26- 90
2-Chlorophenol	2500	ND	2100	84	25-102
1,4-Dichlorobenzene	1670	ND	1510	90	28-104
N-Nitroso-di-n-propylamine	1670	ND	1420	85	41-126
1,2,4-Trichlorobenzene	1670	ND	1400	84	38-107
4-Chloro-3-methylphenol	2500	ND	1990	80	26-103
Acenaphthene	1670	ND	1450	87	31-137
4-Nitrophenol	2500	ND	1560	62	11-114
2,4-Dinitrotoluene	1670	ND	1560	93*	28- 89
Pentachlorophenol	2500	ND	2050	82	17-109
Pyrene	1670	ND	1370	82	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	2090	84	13	35 | 26-90
2-Chlorophenol	2500	1850	74	13	50 | 25-102
1,4-Dichlorobenzene	1670	1290	77	16	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1320	79	7	38 | 41-126
1,2,4-Trichlorobenzene	1670	1210	72	15	23 | 38-107
4-Chloro-3-methylphenol	2500	1730	69	14	33 | 26-103
Acenaphthene	1670	1300	78	11	19 | 31-137
4-Nitrophenol	2500	1470	59	6	50 | 11-114
2,4-Dinitrotoluene	1670	1480	89	5	47 | 28-89
Pentachlorophenol	2500	1400	56	38	47 | 17-109
Pyrene	1670	1170	70	16	36 | 35-142

ND = Not Detected
* = Outside QC limits

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 10 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-26

Date Collected: 10/26/94
Date Extracted: 11/03/94
Date Analyzed: 11/06/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	2240	90	26- 90
2-Chlorophenol	2500	ND	1880	75	25-102
1,4-Dichlorobenzene	1670	ND	1358	81	28-104
N-Nitroso-di-n-propylamine	1670	ND	1276	76	41-126
1,2,4-Trichlorobenzene	1670	ND	1320	79	38-107
4-Chloro-3-methylphenol	2500	ND	1845	74	26-103
Acenaphthene	1670	ND	1374	82	31-137
4-Nitrophenol	2500	ND	1422	57	11-114
2,4-Dinitrotoluene	1670	ND	1430	86	28- 89
Pentachlorophenol	2500	ND	1446	58	17-109
Pyrene	1670	ND	1299	78	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	2170	87	3	35 | 26-90
2-Chlorophenol	2500	1800	72	4	50 | 25-102
1,4-Dichlorobenzene	1670	1310	78	4	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1250	75	2	38 | 41-126
1,2,4-Trichlorobenzene	1670	1250	75	5	23 | 38-107
4-Chloro-3-methylphenol	2500	1790	72	3	33 | 26-103
Acenaphthene	1670	1300	78	6	19 | 31-137
4-Nitrophenol	2500	1420	57	0	50 | 11-114
2,4-Dinitrotoluene	1670	1410	84	1	47 | 28-89
Pentachlorophenol	2500	1510	60	4	47 | 17-109
Pyrene	1670	1300	78	0	36 | 35-142

ND = Not Detected

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 03 BTZ 15.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-42

Date Collected: 10/26/94
Date Extracted: 11/04/94
Date Analyzed: 11/07/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1820	73	26- 90
2-Chlorophenol	2500	ND	1770	71	25-102
1,4-Dichlorobenzene	1670	ND	1190	71	28-104
N-Nitroso-di-n-propylamine	1670	ND	1250	75	41-126
1,2,4-Trichlorobenzene	1670	ND	1160	69	38-107
4-Chloro-3-methylphenol	2500	ND	1600	64	26-103
Acenaphthene	1670	ND	1230	74	31-137
4-Nitrophenol	2500	ND	1470	59	11-114
2,4-Dinitrotoluene	1670	ND	1240	74	28- 89
Pentachlorophenol	2500	ND	1520	61	17-109
Pyrene	1670	ND	970	58	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1850	74	2	35 | 26-90
2-Chlorophenol	2500	1820	73	3	50 | 25-102
1,4-Dichlorobenzene	1670	1220	73	2	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1250	75	0	38 | 41-126
1,2,4-Trichlorobenzene	1670	1160	69	0	23 | 38-107
4-Chloro-3-methylphenol	2500	1570	63	2	33 | 26-103
Acenaphthene	1670	1200	72	2	19 | 31-137
4-Nitrophenol	2500	1430	57	3	50 | 11-114
2,4-Dinitrotoluene	1670	1220	73	2	47 | 28-89
Pentachlorophenol	2500	1450	58	5	47 | 17-109
Pyrene	1670	903	54	7	36 | 35-142

ND = Not Detected

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 13 BTZ 10.0

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-33

Date Collected: 10/26/94
Date Extracted: 11/08/94
Date Analyzed: 11/10/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1720	69	26- 90
2-Chlorophenol	2500	ND	1710	68	25-102
1,4-Dichlorobenzene	1670	ND	1140	68	28-104
N-Nitroso-di-n-propylamine	1670	ND	1200	72	41-126
1,2,4-Trichlorobenzene	1670	ND	1120	67	38-107
4-Chloro-3-methylphenol	2500	ND	1620	65	26-103
Acenaphthene	1670	ND	1170	70	31-137
4-Nitrophenol	2500	ND	1610	64	11-114
2,4-Dinitrotoluene	1670	ND	1210	72	28- 89
Pentachlorophenol	2500	ND	1530	61	17-109
Pyrene	1670	ND	1050	63	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1670	67	3	35 | 26-90
2-Chlorophenol	2500	1660	66	3	50 | 25-102
1,4-Dichlorobenzene	1670	1110	66	3	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1200	72	0	38 | 41-126
1,2,4-Trichlorobenzene	1670	1090	65	3	23 | 38-107
4-Chloro-3-methylphenol	2500	1590	64	2	33 | 26-103
Acenaphthene	1670	1130	68	3	19 | 31-137
4-Nitrophenol	2500	1560	62	3	50 | 11-114
2,4-Dinitrotoluene	1670	1180	71	3	47 | 28-89
Pentachlorophenol	2500	1470	59	4	47 | 17-109
Pyrene	1670	993	59	6	36 | 35-142

ND = Not Detected

Analytical Technologies, Inc.

SEMIVOLATILE ORGANICS MATRIX SPIKE RESULTS

Method 8270

Sample ID

LTA 10 BTZ 10.0 RX

Lab Name: Analytical Technologies, Inc.
Client Name: ATI-NM
Client Project: 410469
Lab Sample ID: 94-10-335-26 RX

Date Collected: 10/26/94
Date Extracted: 11/10/94
Date Analyzed: 11/14/94

Sample Matrix: Soil
Cleanup: GPC

Sample Weight: 30 g
Final Volume: 1 mL

Analyte	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	MS % Rec	QC Limit Recovery
Phenol	2500	ND	1600	64	26- 90
2-Chlorophenol	2500	ND	1550	62	25-102
1,4-Dichlorobenzene	1670	ND	1020	61	28-104
N-Nitroso-di-n-propylamine	1670	ND	1200	72	41-126
1,2,4-Trichlorobenzene	1670	ND	1030	62	38-107
4-Chloro-3-methylphenol	2500	ND	1570	63	26-103
Acenaphthene	1670	ND	1100	66	31-137
4-Nitrophenol	2500	ND	1440	58	11-114
2,4-Dinitrotoluene	1670	ND	1160	69	28- 89
Pentachlorophenol	2500	ND	1310	52	17-109
Pyrene	1670	ND	1040	62	35-142

Analyte	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	% RPD	QC Limits RPD Rec
Phenol	2500	1560	62	3	35 | 26-90
2-Chlorophenol	2500	1510	60	3	50 | 25-102
1,4-Dichlorobenzene	1670	990	59	3	27 | 28-104
N-Nitroso-di-n-propylamine	1670	1130	68	6	38 | 41-126
1,2,4-Trichlorobenzene	1670	1000	60	3	23 | 38-107
4-Chloro-3-methylphenol	2500	1490	60	5	33 | 26-103
Acenaphthene	1670	1050	63	5	19 | 31-137
4-Nitrophenol	2500	1390	56	4	50 | 11-114
2,4-Dinitrotoluene	1670	1090	65	6	47 | 28-89
Pentachlorophenol	2500	1250	50	5	47 | 17-109
Pyrene	1670	1050	63	1	36 | 35-142

ND = Not Detected

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/28/94 PAGE 1 OF 3

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: Analytical Technologies, Inc.

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)	Pb, % Oil, % Moisture	632/632 MOD	619/619 MOD	610/8310	TKN, Total Phosphorus	Pb, Cr	8240 (TCLP 1311) ZHE		Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469-01	10-27	1042	Non AQ	1						X				X	X																			
-02		1042		2						X				X	X																			
-03		1052		3						X				X	X																			
-08	10-26	1405		8						X				X	X																			
-09		1405		9						X				X	X																			
-10		1412		10						X				X	X																			
-15	10-27	0900		15						X				X	X																			
-16		0900		16						X				X	X																			
-17		0912		17						X				X	X																			

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	9
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	410469

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

LOGIN LK1068

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	X
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [illegible] Time: 1730	Signature: Time:
Printed Name: Diane Latter Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company:
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [illegible] Time: 930A
Printed Name: Date:	Printed Name: Linda Estelman Date: 10/31/94
Company:	Company: ATI

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

94-10-551

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 10/28/94 PAGE 1 OF 7

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~8260 GC/MS~~	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469 -01	10-27	1042	Nmeg	01											X	X																	
-02		1042		02											X	X																	
-03		1052		03											X	X																	
-04		1101		04											X	X																	
-05		1109		05											X	X																	
-06		1121		06											X	X																	
-07		1121		07											X	X																	

1EXT
1VM
1VM
1EXT
1VM

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	97
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND./COLD	Y
LAB NUMBER	

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

Work LK 51087

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: D. Butler Time: 1730	Signature: Time:
Printed Name: Dianne Butler Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FED-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 9:30
Printed Name: Date:	Printed Name: L. Killy Date: 10-29-94
Company: FED-X	Company: ATI

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-335

DATE 10/28/94 PAGE 1 OF 7

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~8010/8021 BTXE~~	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O_2, CO_2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469-08	10-26	1405	Nmag	08											X	X																	
-09		1405		09											X	X																	
-10		1412		10											X	X																	
-11		1422		11											X	X																	
-12		1431		12											X	X																	
-13		1442		13											X	X																	
-14		1442		14											X	X																	

NVM
1 EAT
1 VM

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRC
QC LEVEL:	STD. IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	97
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

WOH WK1087

Dec [illegible] P.O.

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	X
FIBERQUANT	

RELINQUISHED BY: 1.
Signature: D. Lutler Time: 1730
Printed Name: Dianne Lutler Date: 10/28/94
Analytical Technologies, Inc. Albuquerque

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company: Fed-X

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company: Fed-X

RECEIVED BY: (LAB) 2.
Signature: Time: 9:30
Printed Name: C. Kelly Date: 10-29-94
Company: ATI

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-335

DATE 10/28/94 PAGE 2 OF 7

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 (TCL ~~BTEX~~)	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469 -15	10-27	0900	Nonag	15											X	X																	
* -16		0900		16											X	X																	
-17		0912		17											X	X																	
-18		0922		18											X	X																	
-19		0928		19											X	X																	
-20		0945		20											X	X																	
-21		0945		21											X	X																	
~~-22~~		~~0908~~													X	X																	
-23	↓	0945	↓	22											X	X																	

IVM
IEAT
#
IVM

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	97
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

DUE DATE: 11/4

RUSH SURCHARGE: -0-

CLIENT DISCOUNT: 10 %

ONE CONTAINER BROKEN DURING SHIPPING - TRANS. TO NEW CONT. LOOH LK 1087 10-29

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1730	Signature: Time:
Printed Name: Diane Lutter Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FED-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 9:30
Printed Name: Date:	Printed Name: L. KELLY Date: 10-29-94
Company: FED X	Company: ATI

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-335

DATE 10/28/94 PAGE 4 OF 4

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~(EPA 624) ZHE~~	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469-24	10-24	1250	Nonaq	23											X	X																	
-25		1250		24											X	X																	
-26		1300		25											X	X																	
-27		1308		26											X	X																	
-28		1316		27											X	X																	
-29		1325		28											X	X																	
-30		1330		29											X	X																	
TB1																																	

1 x 1 LT

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	410469	TOTAL NUMBER OF CONTAINERS	97
PROJECT NAME:	GRC	CHAIN OF CUSTODY SEALS	Y
QC LEVEL:	STD. IV	INTACT?	Y
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD	Y
TAT:	STANDARD RUSH!	LAB NUMBER	

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 0 %

WOH LK1087

Deliverables [illegible]

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [illegible] Time: 1730	Signature: Time:
Printed Name: Dianne Butler Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FED-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [illegible] Time: 9:30
Printed Name: Date:	Printed Name: [illegible] Date: 10-29-94
Company: FED-X	Company: ATI

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

44-10-335

DATE 10/28/94 PAGE 2 OF 2

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 ~~TCL~~ ~~TPH~~	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS	
4104169-31	10/26	1609	Nmag	30											X	X																		IEXT IVM
-32		1609		31											X	X																		
-33		1619		32											X	X																		
-34		1626		33											X	X																		
-35		1630		34											X	X																		IVM IEXT VM
-36		1645		35											X	X																		
-37	↓	1645	↓	36											X	X																		
-38		1626		37												X																		IVM

PROJECT INFORMATION	
PROJECT NUMBER:	4104169
PROJECT NAME:	GRC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	22
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

DUE DATE: 11/11

RUSH SURCHARGE: Ø

CLIENT DISCOUNT: 10 %

WATLK1087

Paul Hawkins/David Prescott

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: D. Butler Time: 1730	Signature: Time:
Printed Name: Dianne Butler Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FED-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 9:30
Printed Name: Date:	Printed Name: L. Kelly Date: 10-29-94
Company: FED-X	Company: ATI

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-335

DATE 10/28/94 PAGE 10 OF 11

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 (~~TOC~~ ~~8011 EDB~~)	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS	
410469-39	10-26	0853	Nonaq	38											X	X																		EXT
-40	↓	0853	↓	39											X	X																		VM
-41		0905		40											X	X																		VM
-42		0911		41											X	X																		EXT
-43		0921		42											X	X																		VM
-44		0932		43											X	X																		
-45	↓	0940	↓	44											X	X																		

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRL
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	97
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

SAMPLES SENT TO	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: D. Butler Time: 1130	Signature: Time:
Printed Name: Diane Butler Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FED-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 9:50
Printed Name: Date:	Printed Name: L. Kelly Date: 10-29-94
Company: FED X	Company:

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

WOTT LK1087

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

94-10-335

DATE 10/28/94 PAGE 1 OF 1

NETWORK PROJECT MANAGER: LETITIA KRAKOWSKI

COMPANY: **Analytical Technologies, Inc.**

ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TOX	TOC	ORGANIC LEAD	SULFIDE	SURFACTANTS (MBAS)		632/632 MOD	619/619 MOD	610/8310		8270	8240 (TCL + 8011 + THE)	Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020)	Volatile Organics GC/MS (624/8240)		NACE	ASBESTOS		BOD	TOTAL COLIFORM	FECAL COLIFORM		GROSS ALPHA/BETA	RADIUM 226/228		AIR - O2, CO2, METHANE	AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020)	NUMBER OF CONTAINERS
410469-46	10-26	1027	Vapor	45											X	X																	
-47		1027		46											X	X																	
-48		1035		47											X	X																	
-49		1041		48											X	X																	
-50		1052		49											X	X																	
-51		1102		50											X	X																	
-52		1112		51											X	X																	

(EXT IUM)

PROJECT INFORMATION	
PROJECT NUMBER:	410469
PROJECT NAME:	GRC
QC LEVEL:	STD IV
QC REQUIRED:	MS MSD BLANK
TAT:	STANDARD RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	77
CHAIN OF CUSTODY SEALS	Y
INTACT?	Y
RECEIVED GOOD COND/COLD	Y
LAB NUMBER	

DUE DATE: 11/11

RUSH SURCHARGE: 0

CLIENT DISCOUNT: 10 %

WO# LK1087

SAMPLES SENT TO:	
SAN DIEGO	
FT. COLLINS	X
RENTON	
PENSACOLA	
PORTLAND	
PHOENIX	
FIBERQUANT	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: D. Lutter Time: 1730	Signature: Time:
Printed Name: Dianne Lutter Date: 10/28/94	Printed Name: Date
Analytical Technologies, Inc. Albuquerque	Company: FPD-X
RECEIVED BY: (LAB) 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 9:30
Printed Name: Date:	Printed Name: L. Kelly Date: 10-29-94
Company: FPD-X	Company: ATI

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 1 OF 7

ATI LAB I.D. 410469

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 14 ZOI 1.0	10-27	1042	SOIL	01										X	X			X	X														3
LTA 14 WTZ 3.0	10-27	1042	SOIL	02										X	X			X	X														3
LTA 14 WTZ 5.0	10-27	1052	SOIL	03										X	X			X	X														3
LTA 14 BTZ 10.0	10-27	1101	SOIL	04														X	X														2
LTA 14 BTZ 15.0	10-27	1109	SOIL	05														X	X														2
LTA 14 BTZ 20.0	10-27	1121	SOIL	06														X	X														2
LTA 14 BTZ 25.0	10-27	1121	SOIL	07														X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA Character	CUSTODY SEALS	(Y) N / NA
P.O. NO.:		RECEIVED INTACT	N
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: LShelton Time: 2:15	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722-0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: D. Hutton Time: 0925
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Lutter Date: 10/28/94
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
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CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 2 OF ~~2~~ 7

ATI LAB I.D. 410469

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 11 ZOI 1.0	10-26	1405	SOIL	08										X	X			X	X														3
LTA 11 WTZ 3.0	10-26	1405	SOIL	09										X	X			X	X														3
LTA 11 WTZ 5.0	10-26	1412	SOIL	10										X	X			X	X														3
LTA 11 BTZ 10.0	10-26	1422	SOIL	11														X	X														2
LTA 11 BTZ 15.0	10-26	1431	SOIL	12														X	X														2
LTA 11 BTZ 20.0	10-26	1442	SOIL	13														X	X														2
LTA 11 BTZ 25.0	10-26	1442	SOIL	14														X	X														2
(CANCELLED) ~~LTA 12 BTZ 25.0 D~~	~~10-27~~	~~1645~~	~~SOIL~~	~~15~~	broken														X														1

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	18
PROJ. NAME:	LTA Character	CUSTODY SEALS	(Y) / N / NA
P.O. NO.:		RECEIVED INTACT	Y / N
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y / N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Shelton Time: 11:15	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: D Hutton Time: 0925
Printed Name: Date:	Printed Name: Date:	Printed Name: Dianne Hutter Date: 10/27/94
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytic **Technologies,** Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 3X OF X7

ATI LAB I.D. 410469

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA12 ZOI 1.0	10-27	0900	SOIL	15	15									X	X			X	X														3
LTA12 WTZ 3.0	10-27	0900	SOIL	16	16									X	X			X	X														3
LTA12 WTZ 5.0	10-27	0912	SOIL	17	17									X	X			X	X														3
LTA12 BTZ 10.0	10-27	0922	SOIL	18	18													X	X														2
LTA12 BTZ 15.0	10-27	0928	SOIL	19	19													X	X														2
LTA12 BTZ 20.0	10-27	0945	SOIL	20	20													X	X														2
LTA12 BTZ 25.0	10-27	0945	SOIL	21	21													X	X														2
LTA12 ZOI 1.0 E	10-27	0908	~~SOIL~~ AQ	22	22									X																			2
LTA12 BTZ 20.0 D	10-27	0945	SOIL	23	23														X														1

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	20
PROJ. NAME:	LTA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	N
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: L Shelton Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY:(LAB) 3.
Signature: Time:	Signature: Time:	Signature: D. Lutter Time: 0925
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Lutter Date: 10/27/94
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego ▪ Phoenix ▪ Seattle ▪ Pensacola ▪ Ft. Collins ▪ Portland ▪ Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 4 OF 7

ATI LAB I.D. 41046

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 10 ZOI 1.0	10-26	1250	SOIL	24										X	X			X	X														3
LTA 10 WTZ 3.0	10-26	1250	SOIL	25										X	X			X	X														3
LTA 10 WTZ 5.0	10-26	1300	SOIL	26										X	X			X	X														3
LTA 10 BTZ 10.0	10-26	1308	SOIL	27														X	X														2
LTA 10 BTZ 15.0	10-26	1316	SOIL	28														X	X														2
LTA 10 BTZ 20.0	10-26	1325	SOIL	29														X	X														2
LTA 10 BTZ 25.0	10-26	1330	SOIL	30														X	X														2

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	5
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	Y
RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: L Shelton Time: 10:00	Signature: Time:	Signature: Time:
Printed Name: LSHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: D. Little Time: 10/28/94
Printed Name: Date:	Printed Name: Date:	Printed Name: Dennis Little Date: 0925
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE 10-27-94 PAGE 5X OF X7

ATI LAB I.D. 41046

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 13 ZOI 1.0	*1609		SOIL	~~33~~ 31										X	X			X	X														3
LTA 13 WTZ 3.0	1609		SOIL	~~31~~ 32										X	X			X	X														3
LTA 13 WTZ 5.0	1619		SOIL	~~35~~ 33										X	X			X	X														3
LTA 13 BTZ 10.0	1626		SOIL	~~36~~ 34														X	X														2
LTA 13 BTZ 15.0	1630		SOIL	~~37~~ 35														X	X														2
LTA 13 BTZ 20.0	1645		SOIL	~~38~~ 36														X	X														2
LTA 13 BTZ 25.0	1645		SOIL	~~39~~ 37														X	X														2
LTA 13 BTZ 10.0 D	1626		SOIL	~~40~~ 38															X														1

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	18
PROJ. NAME:	LTA Character	CUSTODY SEALS	(Y) N / NA
P.O. NO.:		RECEIVED INTACT	N
SHIPPED VIA:	Fed Ex	RECEIVED COLD	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

*ALL SAMPLES TAKEN 10-26-94

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: L Shelton Time: 11:00	Signature: Time:	Signature: Time:
Printed Name: L SHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 7220227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: D Butler Time: 0925
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Butler Date: 10/28/94
Company:	Company:	Analytical Technologies, Inc.

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 6 OF 7

ATI LAB I.D. 41 82469

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 03 ZOI 1.0	10-26	0853	SOIL	42	39									X	X			X	X														3
LTA03 WTZ 3.0	10-26	0853	SOIL	42	40									X	X			X	X														3
LTA 03 WTZ 5.0	10-26	0905	SOIL	43	41									X	X			X	X														3
LTA 03 BTZ 10.0	10-26	0911	SOIL	44	42													X	X														2
LTA 03 BTZ 15.0	10-26	0921	SOIL	45	43													X	X														2
LTA 03 BTZ 20.0	10-26	0932	SOIL	46	44													X	X														2
LTA 03 BTZ 25.0	10-26	0940	SOIL	47	45													X	X														2

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	17
PROJ. NAME:	LTA Character	CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	N
SHIPPED VIA:	Fed Ex	RECEIVED COLD	N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature:	Time: 10-27-94	Signature:	Time:	Signature:	Time:
Printed Name: L SHELTON	Date: 10:00	Printed Name:	Date:	Printed Name:	Date:
Company: GIANT	Phone: 722 0227	Company:		Company:	

RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: (LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time: 0925
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date: 10/28/94
Company:		Company:		Analytical Technologies, Inc.	

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 10-27-94 PAGE 7 OF 7

ATI LAB I.D. 410469

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER:

COMPANY: Giant Refining Co.
ADDRESS: I-40, Exit 39
Jamestown, NM 87347
PHONE: 722-0227
FAX: 722-0210

BILL TO: Lynn Shelton
COMPANY: Giant
ADDRESS: Rt. 3, Box 7
Gallup, NM 87301

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)			Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	General Chemistry	Chromium & Lead	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)			SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal			The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)		NUMBER OF CONTAINERS
LTA 02 ZOI 1.0	10-26	1027	SOIL	46										X	X			X	X														3
LTA 02 WTZ 3.0	10-26	1027	SOIL	47										X	X			X	X														3
LTA 02 WTZ 5.0	10-26	1035	SOIL	48										X	X			X	X														3
LTA-02 BTZ 10.0	10-26	1041	SOIL	49														X	X														2
LTA-02 BTZ 15.0	10-26	1052	SOIL	50														X	X														2
LTA 02 BTZ 20.0	10-26	1102	SOIL	51														X	X														2
LTA 02 BTZ 20.0	10-26	1112	SOIL	52														X	X														2

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: LTA Character
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS: 17
CUSTODY SEALS: Y / N / NA
RECEIVED INTACT: Y
RECEIVED COLD: Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments:

SEE ATTACHED LISTS

SAMPLED & RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time: 10:50	Signature: Time:	Signature: Time:
Printed Name: LSHELTON Date: 10-27-94	Printed Name: Date:	Printed Name: Date:
Company: GIANT Phone: 722 0227	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: [signature] Time: 0925
Printed Name: Date:	Printed Name: Date:	Printed Name: Diane Lister Date: 10/28/94
Company:	Company:	Analytical Technologies, Inc.