74002

ENVIRONMENTAL RESTORATION PROJECT

Los Alamos National Laboratory (LANL)
Environment Restoration Project (ER)
Records Processing Facility (RPF)
ER Record ID Number Barcode Label

LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION
Records Processing Facility
ER Records Index Form

ENTERED

ER ID NO. 74002 ***Date Received:*** 2/25/2003 ***Processor:*** DSV ***Page Count:*** 8

Privileged: (Y/N) N ***Record Category:*** P

FileFolder: N/A

Correction: (Y/N) N ***Corrected No.*** 0 ***Corrected By Number:*** 0

Administrative Record: (Y/N) Y

Refilmed: (Y/N) N ***Old ER ID Number:*** 0 ***New ER ID Number:*** 0

Miscellaneous Comments:

N/A

32273

THIS FORM IS SUBJECT TO CHANGE. CONTACT THE RPF FOR LATEST VERSION. (JUNE 1997)

74002

(8)

Los Alamos
NATIONAL LABORATORY
memorandum
Chemical Science and Technology
Responsible Chemistry for America
Environmental Restoration Project /CST-18
Los Alamos, New Mexico 87545

To/MS: Peter Bussolini, NIS-33, E522
From/MS: Roy Michelotti, CST-18, E525
Lynn Kidman, ICF KE, M892
Phone/FAX: 665-7444/665-4632
661-5227/661-5222

Symbol: ER-RM-97-65
Date: October 30, 1997

Subject: Transfer of Responsibility for Future Contamination at TA-33-31

The ER Project has removed all contents of septic Tank TA-33-31. This includes rinsing the tank three times with a high pressure sprayer and the application of a bleach spray. We have also analyzed soil samples taken from under the broken inlet and outlet. No contamination was found in these samples that warrant further action (analyses attached). Prior sampling results and background information on this site are also available in the September 29, 1995, RFI Report for TA-33 (LAUR 95-3625).

We believe that the portion of PRS 33-004(a) associated with the septic tank poses no significant risk to human health or the environment. Any future contamination found in or around Septic Tank TA-33-31 will, therefore, be attributable to ongoing operations at TA-33 and be the responsibility of the TA-33 facility management. Responsibility for legacy contamination associated with the remaining portions of PRS 33-004a (the seepage pits and the drainfield) is not included in this transfer agreement.

Signatures below signify an agreement with the above-stated transfer of responsibility.

SLA 10/31/97 Peter L. Bussolini

Peter Bussolini, NIS-33, representing TA-33 Facility Management

10/30/97

Dave McInroy, EM/ER, representing Environmental Remediation Project

RECEIVED
FEB 25 2003
By RAY/

Attachments

Sample number 0333-97-0004	Soil from below tank on east side
Sample number 0333-97-0010	Soil from under the tank inlet
Sample number 0333-97-0011	Soil from under the tank outlet

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0333-97-0004

Lab Name: PARAGON_ANALYTICS_____ Contract: _____

Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 3751R_

Matrix (soil/water): SOIL_ Lab Sample ID: S9709272-1

Level (low/med): LOW__ Date Received: 09/27/97

% Solids: _67.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3500			P
7440-36-0	Antimony	1.0	U		P
7440-38-2	Arsenic	2.1	B		P
7440-39-3	Barium	27.1	B		P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	0.12	U		P
7440-70-2	Calcium	1670			P
7440-47-3	Chromium	6.2			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	12.1		*	P
7439-89-6	Iron	5550			P
7439-92-1	Lead	10.9		*	P
7439-95-4	Magnesium	778	B		P
7439-96-5	Manganese	81.3			P
7439-97-6	Mercury	0.02	U		AV
7440-02-0	Nickel	4.4	B		P
7440-09-7	Potassium	866	B		P
7782-49-2	Selenium	0.80	U		P
7440-22-4	Silver	0.84	B		P
7440-23-5	Sodium	152	B	E	P
7440-28-0	Thallium	0.65	U		P
7440-61-1	Uranium	20.7	U		P
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc	55.3		*	P

Color Before: BROWN____ Clarity Before: N/A___ Texture: MEDIUM

Color After: WHITE____ Clarity After: CLOUDY Artifacts: _____

Comments:

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9709271
Client Name: Los Alamos National Laboratory
ClientProject ID: 3750R

Reported on: Thursday, October 02, 1997

Field ID: 0333-97-0004	Sample Matrix: Solid	Date Collected: 25-Sep-97	Sample Aliquot: 5
Lab ID: 9709271-1	% Moisture: 32.3	Date Extracted: 01-Oct-97	Final Volume: 5
	Cleanup Method: NONE	Date Analyzed: 01-Oct-97	Dilution: 1
	Report Basis: DRY WEIGHT	Prep Batch: v09271	

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
75-71-8	DICHLORODIFLUOROMETHANE	15	ug/kg	15	U	
74-87-3	CHLOROMETHANE	15	ug/kg	15	U	
75-01-4	VINYL CHLORIDE	15	ug/kg	15	U	
74-83-9	BROMOMETHANE	15	ug/kg	15	U	
75-00-3	CHLOROETHANE	15	ug/kg	15	U	
75-69-4	TRICHLOROFLUOROMETHANE	7.4	ug/kg	7.4	U	
75-35-4	1,1-DICHLOROETHENE	7.4	ug/kg	7.4	U	
76-13-1	TRICHLOROTRIFLUOROETHANE	7.4	ug/kg	7.4	U	
67-64-1	ACETONE	30	ug/kg	30	U	
74-88-4	IODOMETHANE	7.4	ug/kg	7.4	U	
75-15-0	CARBON DISULFIDE	7.4	ug/kg	7.4	U	
75-09-2	METHYLENE CHLORIDE	21	ug/kg	7.4	B	
156-60-5	TRANS-1,2-DICHLOROETHENE	7.4	ug/kg	7.4	U	
75-34-3	1,1-DICHLOROETHANE	7.4	ug/kg	7.4	U	
156-59-2	CIS-1,2-DICHLOROETHENE	7.4	ug/kg	7.4	U	
78-93-3	2-BUTANONE	30	ug/kg	30	U	
74-97-5	BROMOCHLOROMETHANE	7.4	ug/kg	7.4	U	
67-66-3	CHLOROFORM	7.4	ug/kg	7.4	U	
71-55-6	1,1,1-TRICHLOROETHANE	7.4	ug/kg	7.4	U	
594-20-7	2,2-DICHLOROPROPANE	7.4	ug/kg	7.4	U	
56-23-5	CARBON TETRACHLORIDE	7.4	ug/kg	7.4	U	
563-58-6	1,1-DICHLOROPROPENE	7.4	ug/kg	7.4	U	
107-06-2	1,2-DICHLOROETHANE	7.4	ug/kg	7.4	U	
71-43-2	BENZENE	7.4	ug/kg	7.4	U	
79-01-6	TRICHLOROETHENE	7.4	ug/kg	7.4	U	
78-87-5	1,2-DICHLOROPROPANE	7.4	ug/kg	7.4	U	
74-95-3	DIBROMOMETHANE	7.4	ug/kg	7.4	U	
75-27-4	BROMODICHLOROMETHANE	7.4	ug/kg	7.4	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	7.4	ug/kg	7.4	U	
108-10-1	4-METHYL-2-PENTANONE	30	ug/kg	30	U	
108-88-3	TOLUENE	7.4	ug/kg	7.4	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	7.4	ug/kg	7.4	U	
79-00-5	1,1,2-TRICHLOROETHANE	7.4	ug/kg	7.4	U	
591-78-6	2-HEXANONE	30	ug/kg	30	U	

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9709271
Client Name: Los Alamos National Laboratory
ClientProject ID: 3750R

Reported on: Thursday, October 02, 1997

Field ID: 0333-97-0004	Sample Matrix: Solid	Date Collected: 25-Sep-97	Sample Aliquot:	5
Lab ID: 9709271-1	% Moisture: 32.3	Date Extracted: 01-Oct-97	Final Volume:	5
	Cleanup Method: NONE	Date Analyzed: 01-Oct-97	Dilution:	1
	Report Basis: DRY WEIGHT	Prep Batch: v09271		

127-18-4	TETRACHLOROETHENE	7.4	ug/kg	7.4	U
142-28-9	1,3-DICHLOROPROPANE	7.4	ug/kg	7.4	U
124-48-1	DIBROMOCHLOROMETHANE	7.4	ug/kg	7.4	U
106-93-4	1,2-DIBROMOETHANE	7.4	ug/kg	7.4	U
108-90-7	CHLOROBENZENE	7.4	ug/kg	7.4	U
630-20-6	1,1,1,2-TETRACHLOROETHANE	7.4	ug/kg	7.4	U
100-41-4	ETHYLBENZENE	7.4	ug/kg	7.4	U
136777-61-	M+P-XYLENE	7.4	ug/kg	7.4	U
95-47-6	O-XYLENE	7.4	ug/kg	7.4	U
100-42-5	STYRENE	7.4	ug/kg	7.4	U
75-25-2	BROMOFORM	7.4	ug/kg	7.4	U
98-82-8	ISOPROPYLBENZENE	7.4	ug/kg	7.4	U
96-18-4	1,2,3-TRICHLOROPROPANE	7.4	ug/kg	7.4	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.4	ug/kg	7.4	U
108-86-1	BROMOBENZENE	7.4	ug/kg	7.4	U
103-65-1	N-PROPYLBENZENE	7.4	ug/kg	7.4	U
95-49-8	2-CHLOROTOLUENE	7.4	ug/kg	7.4	U
108-67-8	1,3,5-TRIMETHYLBENZENE	7.4	ug/kg	7.4	U
106-43-4	4-CHLOROTOLUENE	7.4	ug/kg	7.4	U
98-06-6	TERT-BUTYLBENZENE	7.4	ug/kg	7.4	U
95-63-6	1,2,4-TRIMETHYLBENZENE	7.4	ug/kg	7.4	U
135-98-8	SEC-BUTYLBENZENE	7.4	ug/kg	7.4	U
541-73-1	1,3-DICHLOROBENZENE	7.4	ug/kg	7.4	U
99-87-6	P-ISOPROPYLTOLUENE	7.4	ug/kg	7.4	U
106-46-7	1,4-DICHLOROBENZENE	7.4	ug/kg	7.4	U
104-51-8	N-BUTYLBENZENE	7.4	ug/kg	7.4	U
95-50-1	1,2-DICHLOROBENZENE	7.4	ug/kg	7.4	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	15	ug/kg	15	U
120-82-1	1,2,4-TRICHLOROBENZENE	7.4	ug/kg	7.4	U
87-68-3	HEXACHLOROBUTADIENE	7.4	ug/kg	7.4	U
91-20-3	NAPHTHALENE	7.4	ug/kg	7.4	U
87-61-6	1,2,3-TRICHLOROBENZENE	7.4	ug/kg	7.4	U

TA-21 RSF
SCREENING DATA

GROSS TRITIUM RESULTS

LOCATION	TA-33
FIELD UNIT	3
DATE	9/27/97

NOTE: ALL RESULTS IN pCi/ml

Sample No.	Gross Tritium	% Error	MDC	% MOISTURE
0333-97-0004	2.18E+01	1.77E+01	1.33E-01	30%
0333-97-0005	2.33E+01	2.02E+01	1.34E-01	100%

COMMENTS:

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TA-21 RSF
SCREENING DATA

GROSS ALPHA/BETA/GAMMA RESULTS							
LOCATION	TA-33						
FIELD UNIT	3			NOTE: ALL RESULTS IN pCi/g			
DATE	10/20/97						
Sample No.	Gross Alpha	% Error	MDC	Gross Beta	% Error	MDC	TOTAL ACTIVITY
0333-97-0004	9.37E-01	>100	5.48E+01	9.86E+00	>100	5.55E+01	1.08E+01
0333-97-0005	5.68E+01	>100	5.09E+01	1.53E+01	>100	5.10E+01	7.21E+01
COMMENTS:							

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0333-97-0010

Lab Name: PARAGON_ANALYTICS Contract: _____

Lab Code: NA Case No.: _____ SAS No.: _____ SDG No.: 3796R

Matrix (soil/water): SOIL Lab Sample ID: S9710112-1

Level (low/med): LOW Date Received: 10/16/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2840			P
7440-36-0	Antimony	0.68	U		P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	1330			P
7440-47-3	Chromium	2.9			P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	6.4			P
7439-89-6	Iron	2410			P
7439-92-1	Lead	29.1		*	P
7439-95-4	Magnesium	696	B	E	P
7439-96-5	Manganese	86.6		N*	P
7439-97-6	Mercury	0.02	B		AV
7440-02-0	Nickel	3.0	B		P
7440-09-7	Potassium	627	B		P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.19	B		P
7440-23-5	Sodium	284	B	E	P
7440-28-0	Thallium	0.52	U		P
7440-61-1	Uranium	12.8	U		P
7440-62-2	Vanadium	5.0	B	E	P
7440-66-6	Zinc	84.7		E	P

Color Before: BROWN Clarity Before: N/A Texture: MEDIUM

Color After: COLORLESS Clarity After: CLOUDY Artifacts: _____

Comments:

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9710111
Client Name: Los Alamos National Laboratory
ClientProject ID: 3795R

Reported on: Friday, October 24, 1997

Field ID: 0393-97-0010
Lab ID: 9710111-1

Sample Matrix: Solid
% Moisture: 14.6
Cleanup Method: NONE
Report Basis: DRY WEIGHT

Date Collected: 09-Oct-97
Date Extracted: 17-Oct-97
Date Analyzed: 17-Oct-97
Prep Batch: v10111

Sample Aliquot: 5
Final Volume: 5
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
75-71-8	DICHLORODIFLUOROMETHANE	12	ug/kg	12	U	
74-87-3	CHLOROMETHANE	12	ug/kg	12	U	
75-01-4	VINYL CHLORIDE	12	ug/kg	12	U	
74-83-9	BROMOMETHANE	12	ug/kg	12	U	
75-00-3	CHLOROETHANE	12	ug/kg	12	U	
75-69-4	TRICHLOROFLUOROMETHANE	5.9	ug/kg	5.9	U	
75-35-4	1,1-DICHLOROETHENE	5.9	ug/kg	5.9	U	
76-13-1	TRICHLOROTRIFLUOROETHANE	5.9	ug/kg	5.9	U	
67-64-1	ACETONE	23	ug/kg	23	U	
74-88-4	IODOMETHANE	5.9	ug/kg	5.9	U	
75-15-0	CARBON DISULFIDE	5.9	ug/kg	5.9	U	
75-09-2	METHYLENE CHLORIDE	5.5	ug/kg	5.9	J	
156-60-5	TRANS-1,2-DICHLOROETHENE	5.9	ug/kg	5.9	U	
75-34-3	1,1-DICHLOROETHANE	5.9	ug/kg	5.9	U	
156-59-2	CIS-1,2-DICHLOROETHENE	5.9	ug/kg	5.9	U	
78-93-3	2-BUTANONE	23	ug/kg	23	U	
74-97-5	BROMOCHLOROMETHANE	5.9	ug/kg	5.9	U	
67-66-3	CHLOROFORM	5.9	ug/kg	5.9	U	
71-55-6	1,1,1-TRICHLOROETHANE	5.9	ug/kg	5.9	U	
594-20-7	2,2-DICHLOROPROPANE	5.9	ug/kg	5.9	U	
56-23-5	CARBON TETRACHLORIDE	5.9	ug/kg	5.9	U	
563-58-6	1,1-DICHLOROPROPENE	5.9	ug/kg	5.9	U	
107-06-2	1,2-DICHLOROETHANE	5.9	ug/kg	5.9	U	
71-43-2	BENZENE	5.9	ug/kg	5.9	U	
79-01-6	TRICHLOROETHENE	5.9	ug/kg	5.9	U	
78-87-5	1,2-DICHLOROPROPANE	5.9	ug/kg	5.9	U	
74-95-3	DIBROMOMETHANE	5.9	ug/kg	5.9	U	
75-27-4	BROMODICHLOROMETHANE	5.9	ug/kg	5.9	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.9	ug/kg	5.9	U	
108-10-1	4-METHYL-2-PENTANONE	23	ug/kg	23	U	
108-88-3	TOLUENE	5.9	ug/kg	5.9	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.9	ug/kg	5.9	U	
79-00-5	1,1,2-TRICHLOROETHANE	5.9	ug/kg	5.9	U	
591-78-6	2-HEXANONE	23	ug/kg	23	U	

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9710111
Client Name: Los Alamos National Laboratory
ClientProject ID: 3795R

Reported on: Friday, October 24, 1997

Field ID: 0333-97-0010	Sample Matrix: Solid	Date Collected: 09-Oct-97	Sample Aliquot:	5
Lab ID: 9710111-1	% Moisture: 14.6	Date Extracted: 17-Oct-97	Final Volume:	5
	Cleanup Method: NONE	Date Analyzed: 17-Oct-97	Dilution:	1
	Report Basis: DRY WEIGHT	Prep Batch: v10111		

127-18-4	TETRACHLOROETHENE	5.9	ug/kg	5.9	U	
142-28-9	1,3-DICHLOROPROPANE	5.9	ug/kg	5.9	U	
124-48-1	DIBROMOCHLOROMETHANE	5.9	ug/kg	5.9	U	
106-93-4	1,2-DIBROMOETHANE	5.9	ug/kg	5.9	U	
108-90-7	CHLOROBENZENE	5.9	ug/kg	5.9	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	5.9	ug/kg	5.9	U	
100-41-4	ETHYLBENZENE	5.9	ug/kg	5.9	U	
136777-61-	M+P-XYLENE	5.9	ug/kg	5.9	U	
95-47-6	O-XYLENE	5.9	ug/kg	5.9	U	
100-42-5	STYRENE	5.9	ug/kg	5.9	U	
75-25-2	BROMOFORM	5.9	ug/kg	5.9	U	
98-82-8	ISOPROPYLBENZENE	5.9	ug/kg	5.9	U	
96-18-4	1,2,3-TRICHLOROPROPANE	5.9	ug/kg	5.9	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.9	ug/kg	5.9	U	
108-86-1	BROMOBENZENE	5.9	ug/kg	5.9	U	
103-65-1	N-PROPYLBENZENE	5.9	ug/kg	5.9	U	
95-49-8	2-CHLOROTOLUENE	5.9	ug/kg	5.9	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	5.9	ug/kg	5.9	U	
106-43-4	4-CHLOROTOLUENE	5.9	ug/kg	5.9	U	
98-06-6	TERT-BUTYLBENZENE	5.9	ug/kg	5.9	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	5.9	ug/kg	5.9	U	
135-98-8	SEC-BUTYLBENZENE	5.9	ug/kg	5.9	U	
541-73-1	1,3-DICHLOROBENZENE	5.9	ug/kg	5.9	U	
99-87-6	P-ISOPROPYLTOLUENE	5.9	ug/kg	5.9	U	
106-46-7	1,4-DICHLOROBENZENE	5.9	ug/kg	5.9	U	
104-51-8	N-BUTYLBENZENE	5.9	ug/kg	5.9	U	
95-50-1	1,2-DICHLOROBENZENE	5.9	ug/kg	5.9	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	12	ug/kg	12	U	
120-82-1	1,2,4-TRICHLOROBENZENE	5.9	ug/kg	5.9	U	
87-68-3	HEXACHLOROBUTADIENE	5.9	ug/kg	5.9	U	
91-20-3	NAPHTHALENE	5.9	ug/kg	5.9	U	
87-61-6	1,2,3-TRICHLOROBENZENE	5.9	ug/kg	5.9	U	

TA-21 RSF
SCREENING DATA

GROSS TRITIUM RESULTS

LOCATION	TA-33
FIELD UNIT	3
DATE	10/14/97

NOTE: ALL RESULTS IN pCi/ml

Sample No.	Gross Tritium	% Error	MDC	% MOISTURE
0333-97-0010	1.18E+01	1.89E+01	1.42E-01	9%
0333-97-0011	1.15E+01	1.91E+01	1.43E-01	6%

COMMENTS:

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TA-21 RSF
SCREENING DATA

GROSS ALPHA/BETA/GAMMA RESULTS

LOCATION: TA-33
FIELD UNIT: 3
DATE: 10/14/97

NOTE: ALL RESULTS IN pCi/g

Sample No.	Gross Alpha	% Error	MDC	Gross Beta	% Error	MDC	Gross Gamma	% Error	MDC	TOTAL ACTIVITY
0333-97-0010	2.76E-01	>100	1.61E+01	2.38E+01	5.17E+01	1.63E+01	0.00E+00	0.00E+00	5.48E+01	2.41E+01
0333-97-0011	1.95E+01	>100	1.51E+01	1.41E+01	8.33E+01	1.72E+01	0.00E+00	0.00E+00	6.49E+01	3.36E+01

COMMENTS:

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10/17/96, Rev.2

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0333-97-0011

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 3796R_
Matrix (soil/water): SOIL_ Lab Sample ID: S9710112-2
Level (low/med): LOW__ Date Received: 10/16/97
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2980			P
7440-36-0	Antimony_	0.68	U		P
7440-38-2	Arsenic__	1.0	B		P
7440-39-3	Barium___	32.4	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium__	0.04	U		P
7440-70-2	Calcium__	659	B		P
7440-47-3	Chromium_	5.1			P
7440-48-4	Cobalt___	0.92	B		P
7440-50-8	Copper___	7.1			P
7439-89-6	Iron_____	2800			P
7439-92-1	Lead_____	6.7		*	P
7439-95-4	Magnesium	667	B	E	P
7439-96-5	Manganese	50.8		N*	P
7439-97-6	Mercury__	0.06	B		AV
7440-02-0	Nickel___	2.8	B		P
7440-09-7	Potassium	653	B		P
7782-49-2	Selenium_	0.52	U		P
7440-22-4	Silver___	1.1	B		P
7440-23-5	Sodium___	182	B	E	P
7440-28-0	Thallium_	0.52	U		P
7440-61-1	Uranium__	12.8	U		P
7440-62-2	Vanadium_	6.3	B	E	P
7440-66-6	Zinc_____	30.4		E	P

Color Before: BROWN____ Clarity Before: N/A___ Texture: MEDIUM
Color After: COLORLESS Clarity After: CLOUDY Artifacts: _____

Comments:

FORM I - IN

ILM03.0

000013

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9710111
Client Name: Los Alamos National Laboratory
ClientProject ID: 3795R

Reported on: Friday, October 24, 1997

Field ID	0333-97-0011
Lab ID	9710111-2

Sample Matrix: Solid
% Moisture: 20.5
Cleanup Method: NONE
Report Basis: DRY WEIGHT

Date Collected: 09-Oct-97
Date Extracted: 17-Oct-97
Date Analyzed: 17-Oct-97
Prep Batch: v10111

Sample Aliquot: 5
Final Volume: 5
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
75-71-8	DICHLORODIFLUOROMETHANE	13	ug/kg	13	U	
74-87-3	CHLOROMETHANE	13	ug/kg	13	U	
75-01-4	VINYL CHLORIDE	13	ug/kg	13	U	
74-83-9	BROMOMETHANE	13	ug/kg	13	U	
75-00-3	CHLOROETHANE	13	ug/kg	13	U	
75-69-4	TRICHLOROFLUOROMETHANE	6.3	ug/kg	6.3	U	
75-35-4	1,1-DICHLOROETHENE	6.3	ug/kg	6.3	U	
76-13-1	TRICHLOROTRIFLUOROETHANE	6.3	ug/kg	6.3	U	
67-64-1	ACETONE	25	ug/kg	25	U	
74-88-4	IODOMETHANE	6.3	ug/kg	6.3	U	
75-15-0	CARBON DISULFIDE	6.3	ug/kg	6.3	U	
75-09-2	METHYLENE CHLORIDE	5	ug/kg	6.3	J	
156-60-5	TRANS-1,2-DICHLOROETHENE	6.3	ug/kg	6.3	U	
75-34-3	1,1-DICHLOROETHANE	6.3	ug/kg	6.3	U	
156-59-2	CIS-1,2-DICHLOROETHENE	6.3	ug/kg	6.3	U	
78-93-3	2-BUTANONE	25	ug/kg	25	U	
74-97-5	BROMOCHLOROMETHANE	6.3	ug/kg	6.3	U	
67-66-3	CHLOROFORM	6.3	ug/kg	6.3	U	
71-55-6	1,1,1-TRICHLOROETHANE	6.3	ug/kg	6.3	U	
594-20-7	2,2-DICHLOROPROPANE	6.3	ug/kg	6.3	U	
56-23-5	CARBON TETRACHLORIDE	6.3	ug/kg	6.3	U	
563-58-6	1,1-DICHLOROPROPENE	6.3	ug/kg	6.3	U	
107-06-2	1,2-DICHLOROETHANE	6.3	ug/kg	6.3	U	
71-43-2	BENZENE	6.3	ug/kg	6.3	U	
79-01-6	TRICHLOROETHENE	6.3	ug/kg	6.3	U	
78-87-5	1,2-DICHLOROPROPANE	6.3	ug/kg	6.3	U	
74-95-3	DIBROMOMETHANE	6.3	ug/kg	6.3	U	
75-27-4	BROMODICHLOROMETHANE	6.3	ug/kg	6.3	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.3	ug/kg	6.3	U	
108-10-1	4-METHYL-2-PENTANONE	25	ug/kg	25	U	
108-88-3	TOLUENE	6.3	ug/kg	6.3	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.3	ug/kg	6.3	U	
79-00-5	1,1,2-TRICHLOROETHANE	6.3	ug/kg	6.3	U	
591-78-6	2-HEXANONE	25	ug/kg	25	U	

Volatile Organics by GC/MS

Method SW8260

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9710111
Client Name: Los Alamos National Laboratory
ClientProject ID: 3795R

Reported on: Friday, October 24, 1997

Field ID: 0333-97-0011
Lab ID: 9710111-2

Sample Matrix: Solid
% Moisture: 20.5
Cleanup Method: NONE
Report Basis: DRY WEIGHT

Date Collected: 09-Oct-97
Date Extracted: 17-Oct-97
Date Analyzed: 17-Oct-97
Prep Batch: v10111

Sample Aliquot: 5
Final Volume: 5
Dilution: 1

127-18-4	TETRACHLOROETHENE	6.3	ug/kg	6.3	U	
142-28-9	1,3-DICHLOROPROPANE	6.3	ug/kg	6.3	U	
124-48-1	DIBROMOCHLOROMETHANE	6.3	ug/kg	6.3	U	
106-93-4	1,2-DIBROMOETHANE	6.3	ug/kg	6.3	U	
108-90-7	CHLOROBENZENE	6.3	ug/kg	6.3	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	6.3	ug/kg	6.3	U	
100-41-4	ETHYLBENZENE	6.3	ug/kg	6.3	U	
136777-61-	M+P-XYLENE	6.3	ug/kg	6.3	U	
95-47-6	O-XYLENE	6.3	ug/kg	6.3	U	
100-42-5	STYRENE	6.3	ug/kg	6.3	U	
75-25-2	BROMOFORM	6.3	ug/kg	6.3	U	
98-82-8	ISOPROPYLBENZENE	6.3	ug/kg	6.3	U	
96-18-4	1,2,3-TRICHLOROPROPANE	6.3	ug/kg	6.3	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.3	ug/kg	6.3	U	
108-86-1	BROMOBENZENE	6.3	ug/kg	6.3	U	
103-65-1	N-PROPYLBENZENE	6.3	ug/kg	6.3	U	
95-49-8	2-CHLOROTOLUENE	6.3	ug/kg	6.3	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	6.3	ug/kg	6.3	U	
106-43-4	4-CHLOROTOLUENE	6.3	ug/kg	6.3	U	
98-06-6	TERT-BUTYLBENZENE	6.3	ug/kg	6.3	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	6.3	ug/kg	6.3	U	
135-98-8	SEC-BUTYLBENZENE	6.3	ug/kg	6.3	U	
541-73-1	1,3-DICHLOROBENZENE	6.3	ug/kg	6.3	U	
99-87-6	P-ISOPROPYLTOLUENE	6.3	ug/kg	6.3	U	
106-46-7	1,4-DICHLOROBENZENE	6.3	ug/kg	6.3	U	
104-51-8	N-BUTYLBENZENE	6.3	ug/kg	6.3	U	
95-50-1	1,2-DICHLOROBENZENE	6.3	ug/kg	6.3	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	13	ug/kg	13	U	
120-82-1	1,2,4-TRICHLOROBENZENE	6.3	ug/kg	6.3	U	
87-68-3	HEXACHLOROBUTADIENE	6.3	ug/kg	6.3	U	
91-20-3	NAPHTHALENE	6.3	ug/kg	6.3	U	
87-61-6	1,2,3-TRICHLOROBENZENE	6.3	ug/kg	6.3	U	