Department of Energy
Field Office, Albuquerque
Los Alamos Area Office
Los Alamos, New Mexico 87544

Barbara

AUG 16 1993

William Honker, Chief
RCRA Permits Branch
Hazardous Waste Management Division
U. S. EPA, Region 6
1445 Ross Ave., Suite 1200
Dallas, TX 75202-2733

Dear Mr. Honker:

This letter is in reference to Resource Conservation and Recovery Act Facility Investigation (RFI) Work Plan for Operable Unit (OU) 1122, Los Alamos National Laboratory (LANL) NM0890010515.

In a letter dated July 15, 1993, from Allyn Davis to Joseph Vozella, which was received by this office on July 20, 1993, the Environmental Protection Agency (EPA) conditionally approved the RFI Work Plan for the OU referred to above. That conditional approval required the submittal of additional information within 30 days of the receipt of the letter. Enclosed is the information requested.

As required by the approval letter, LANL has begun immediate implementation of the Work Plan with drilling activity to commence Monday, August 16, 1993, weather permitting.

Should your or your staff have any questions about the information submitted, please contact Court Fesmire of my staff at (505) 665-4718.

Sincerely,

Joseph C. Vozella

Joseph C. Vozella, Chief
Environment, Safety, and Health
Branch

LESH:7CF-001

Enclosure

cc:
See page 2

4714

TR

AUG 16 1993

cc w/enclosure:
K. Sisneros
NMED
1190 St. Francis Dr.
Santa Fe, NM 87502
T. Taylor, ES&H, LAAO
P. Treat, ES&H, LAAO
S. Slaten, ES&H, LAAO
C. Fesmire, ES&H, LAAO
K. Schenck, ES&H, Scientech, LAAO
K. Bitner, ERPO, AL

cc w/o enclosure:
R. Harris, EM-452, HQ
J. Vozella, ES&H, LAAO
A. Tiedman, ADO, LANL, MS-A120
T. Gunderson, EM-DO, LANL, MS-J591
J. Shipley, EE-AETO, LANL, MS-F641
D. Sankey, FIN-18, LANL, MS-A107

MODIFICATIONS REQUIRED FOR OU 1122 RFI WORK PLAN
August 1993

1. The final report should be submitted within eight months of receipt of analytical data and completion of all field work.

Response: The final RFI report will be submitted to EPA within eight months of receipt of all RFI-generated analytical data.

2. 3.2.2.7 SWMU 33-011(d) Storage Area TA-33-20, p. 3-24 - How were materials stored (i.e. in drums)?

Response: W-3 former deputy group leader, Harlow Russ, indicates that the materials consisted of spent parts collected after tests and held for salvage or classified disposal. The materials stored outside TA-33-20 were not drummed or otherwise contained. They were stored exposed to the environment on unprotected asphalt (Hoard 1993, 02-068).

3. 3.2.4.3 Subsurface Data, p. 3-29 - Submit a list of the contaminants for which analysis was conducted.

Response: Analyses were conducted for volatile and semivolatile organic compounds, metals, gamma-emitters, uranium, tritium, plutonium, PCBs, and high explosives (LANL 1989, 02-020).

4. For all Surface investigations: Elaborate on the sentences indicating that data will be summarized by estimating spatial trends and local average concentrations as a function of distance of the sources.

See Attachment A.

5. 3.5.4 Review of Existing Data, p. 3-72 - More information needs to be provided on the Roy F. Weston 1989 sampling of the two chambers in MDA-D. This information should include a map indicating the location of the boreholes, depths of sampling intervals, and tabulated results of the sampling and analysis.

See Attachment B

6. 4.1.4 Sampling and Analysis strategies, p. 4-3 and 4-7 - For any sample collected the sample maximum should be compared with action levels.

Response: Replace paragraph 5, page 4-5 with the following: In all cases RFI Phase I concludes with a decision point, leading to baseline risk assessment, to voluntary corrective action, to a corrective measures study, or to no further action. In most cases, this decision requires a comparison between site observations and screening action levels (SALs). To identify contaminants of concern (COCs), maximum concentrations for each analyte and each site will be compared to SALs as defined in the current IWP. No further action will be proposed if no COCs are identified.

7. 4.2.6 Subsurface Sampling at MDA-K, p 4-28 - For each of the three cores drilled, a sample should be collected every 10 feet to a depth of 30 feet, and these samples should be analyzed for organics and metals. Sampling below 30 feet may continue as indicated in the work plan.

Response: Detailed DQOs were developed for deep drilling at MDA-K. These and the sampling schedule have been modified to include sampling for VOCs, SVOCs, and metals every 10 ft of the top 30 ft for each borehole.

8. For all septic systems subsurface sampling: The sample collected next to the tank from the bottom of the tank should also be analyzed for VOAs.

Response: All subsurface septic system sampling will be analyzed for VOCs. For those tanks sampled in the 1993 field season, additional samples will be taken specifically for VOCs.

9. 4.4.4 MDA-E, p. 4-38 - The sampling and analysis already conducted did not cover all the potential constituents in the pits at MDA-E. LANL shall drill two extra boreholes close to pits and sample for beryllium and explosives every 10 feet to a depth of 40 feet.

Response: Sampling at MDA-E will include analyses for HE and metals, including beryllium, every 10 ft to depths of 40 ft in a minimum of two boreholes. It is recognized that MDA-E requires long-range decisions that could not be adequately explored in the RFI time frame. Disposition of MDA-E is currently undergoing formal decision analysis procedures; sampling strategies will depend on the results of the study. Sampling will be conducted after the decision analysis is complete and the decisions agreed upon by affected parties, including EPA.

REFERENCES

Hoard, D., July 26, 1993. "Conversation with Harlow Russ concerning TA-33-20, " Los Alamos National Laboratory memorandum CLS-ER/RM 93-72 to file from Dorothy Hoard (CLS-1), Los Alamos, New Mexico (Hoard 1993, 02-068)

LANL (Los Alamos National Laboratory), September 1989. "Raw Data Report: Task 2, Preliminary Draft (Revision 0), Roy F. Weston, Inc., Albuquerque, New Mexico. (LANL 1989, 02-020)

Attachment A: Modifications Required for OU 1122 Work Plan

EPA COMMENT #4 ON SURFACE INVESTIGATIONS

3.2.6.2 Surface Investigations: Subheading 3) Addendum

The area-wide surface investigation at Main Site and adjacent Area 6 is designed to address residual contamination due to airborne releases of tritium from the stack of the High Pressure Tritium Facility (TA-33-86) and of fine particulates from the ventilation systems of machine shops (TA-33-39 and TA-33-113) and cutoff building (TA-33-40). It is anticipated that material from these releases could have been dispersed, primarily in the direction of the prevailing daytime winds, throughout Main Site. If the potential contaminants of concern associated with these sources are observed in samples collected under the area-wide (grid) sampling plan, the design of that plan will further allow estimation of:

- important components of variance: variability among field duplicates (samples separated by less than two feet) and among "neighbors" (samples separated by a fraction of the grid spacing);
- area-wide spatial trends;
- average concentrations within localized areas (of a size to be determined by the exposure unit associated with the risk assessment scenario to be agreed upon) with a precision that can not currently be estimated because there is no existing information on the magnitude of the components of variance mentioned above.

Specifically, the following hypotheses will be statistically testable using these data:

- Positive spatial correlation among neighboring observations is sufficiently strong that the data may be used to estimate local concentrations within areas as small as 0.25 acre with a precision of ±50%. (The numbers will be changed to reflect risk-based requirement. That is, the size of the areas of interest depends on the exposure unit to be used for risk assessment, and the precision desired depends on the decision certainty required by the investigator and other stakeholders. If areas of the size of interest under the proposed exposure scenarios cannot be estimated with satisfactory precision, and if it appears that a decision on whether or not to remediate the site will hinge on such estimation, then additional data may be required.)
- The distribution of contamination at the site is controlled by the prevailing daytime winds.

Depending on the results of these two tests, it may also be possible to test a hypothesis of the form:

- For no exposure unit that could be placed within Main Site does the risk associated with residual contamination, calculated using a scenario to be agreed upon, exceed the target risk level.

3.4.6.3 Surface Investigations: Subheading 3) Addendum

The area-wide surface investigation at South Site is designed to address residual contamination from the implosion tests carried out at the South Site firing site [SWMU 33-006(a)]. Shrapnel from these tests is still widely observed across South Site, and the existing data suggest that low level radioactive material is distributed in a radial pattern near the former firing point. If the potential contaminants of concern associated with these tests are observed in samples collected under the area-wide (grid) sampling plan, the design of that plan will further allow the estimation of variance components, area-wide spatial trends, and average concentrations within localized areas, as discussed in connection with the grid sampling plan proposed at Main Site (Subsection 3.2.6.2). Specific hypotheses that may be entertained concerning surface contamination at South Site are identical to those formulated in Subsection 3.2.6.2, although it is possible that the exposure scenario of interest for South Site will be different from that considered at Main Site.

East Site and National Radio Astronomy Observatory (NRAO) have some large-surface SWMUs. Grid sampling is proposed at those SWMUs, but the extent of the data collected will not support such extensive hypothesis testing. Only screening assessments are proposed for these sites (and at Area 6, except insofar as there is a little extension of the Main Site grid into Area 6). The data will not be sufficient to do more than identify contaminants of concern, if any.

Katherine Campbell, A-1
July 24, 1993

ATTACHMENT B: Modifications Required for OU 1122 RFI Work Plan

EPA COMMENT #5 ON DATA FOR MDA-D

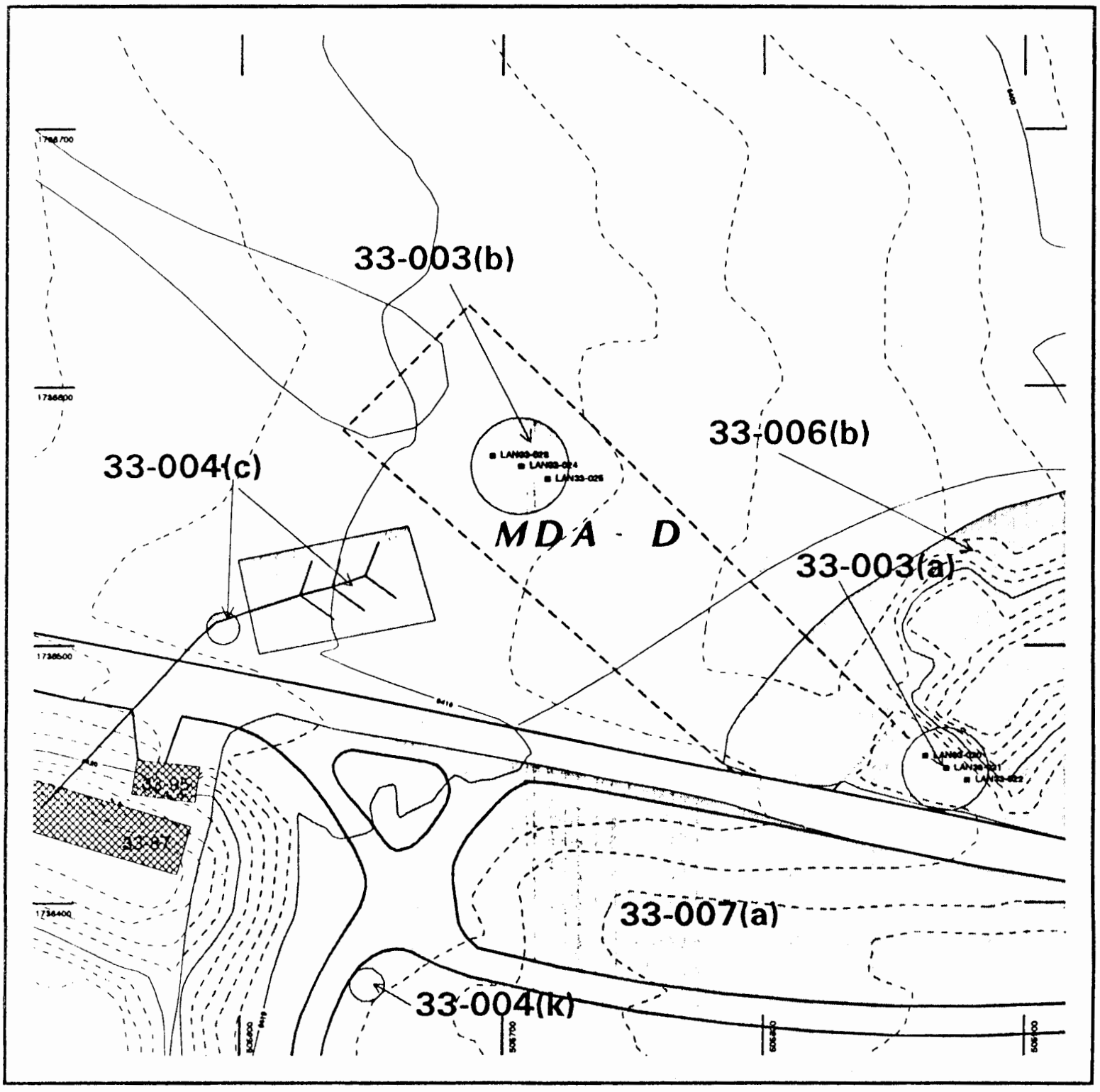
Exhibit 1 is a map of MDA-D showing topographic features and the locations of the Weston 1989 boreholes

Exhibit 2 contains results of analyses of samples from borehole cores. Tables indicate depth at which samples were taken, analytes, and analyte concentrations, as well as relevant explanatory information.

Table 1 summarizes information presented in the Weston tables, including SWMU, description of borehole path, depth of sample, and analyses performed for each depth increment.

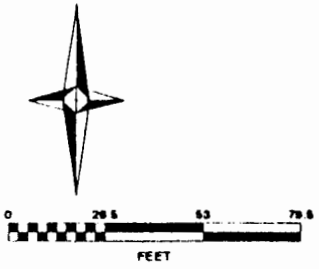
TABLE 1
SUMMARY OF WESTON 1989 SAMPLING EFFORT AT MDA-D

BOREHOLE/SWMU	PATH DESCRIPTION	DEPTH	ANALYSES PERFORMED
LAN33-0020	Surface to concrete floor	13-18 ft	Metals, HE
33-003(a)	of elevator shaft	38-43 ft	Radionuclides
		43-46 ft	Metals, radionuclides, HE
LAN33-0021	Surface to chamber roof	23-28 ft	Metals, radionuclides, HE
33-003(a)			
LAN33-0022	Surface to tuff below floor	28-33 ft	Metals, volatiles, radionuclides, HE
33-003(a)	level, exterior of shaft	33-35 ft	Radionuclides
		35-40 ft	Radionuclides
		44-49 ft	Metals, volatiles, Radionuclides, HE
LAN33-0023	Surface to concrete floor	33-38 ft	Metals, radionuclides, HE
33-003(b)	of elevator shaft	38-43 ft	Metals, volatiles, radionuclides, HE
		43-48 ft	Metals, radionuclides, HE
LAN33-0024	Surface to chamber roof	18-23 ft	Metals, radionuclides, HE
33-003(b)		23-28 ft	Metals, radionuclides, HE
LAN33-0025	Surface to tuff below floor	23-28 ft	Volatiles
33-003(b)	level, exterior of shaft	38-43 ft	Metals, radionuclides, HE
		43-48 ft	Metals, radionuclides, HE
		53-58 ft	Volatiles



TA-33 EAST SITE

- Contours, 2 foot
- Contours, 10 foot
- MDA
- Roads, Dirt
- Roads, Paved
- Sewer
- PRS
- Structure
- Borehole



University of California
Los Alamos National Laboratory
Earth and Environmental Sciences

FIMAD
Facility for Information Management, Analysis and Display

Map Coordinates in New Mexico State Plane Feet
Grid Interval, in feet: 100

Produced by: Marcia Jones
FIMAD G101272

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
44.0 - 49.0	THALLIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	2.1	2.1	1.00
	VANADIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	10.	10.	1.00
	ZINC, TOTAL	0049	F	22-MAY-89	MG/KG		38.9	4.0	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	ALUMINUM, TOTAL	0033	F	18-MAY-89	MG/KG		1450.	38.2	1.00
	ANTIMONY, TOTAL	0033	F	18-MAY-89	MG/KG	U	11.5	11.5	1.00
	ARSENIC, TOTAL	0033	F	18-MAY-89	MG/KG	U	2.0	2.0	1.00
	BARIUM, TOTAL	0033	F	18-MAY-89	MG/KG		68.6	38.2	1.00
	BERYLLIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	0.95	0.95	1.00
	CADMIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	0.95	0.95	1.00
	CALCIUM, TOTAL	0033	F	18-MAY-89	MG/KG		2150.	954.	1.00
	CHROMIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	1.9	1.9	1.00
	COBALT, TOTAL	0033	F	18-MAY-89	MG/KG	U	9.5	9.5	1.00
	COPPER, TOTAL	0033	F	18-MAY-89	MG/KG	U	4.8	4.8	1.00
	IRON, TOTAL	0033	F	18-MAY-89	MG/KG		2510.	19.1	1.00
	LEAD, TOTAL	0033	F	18-MAY-89	MG/KG		3.1	0.98	1.00
	MAGNESIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	954.	954.	1.00
	MANGANESE, TOTAL	0033	F	18-MAY-89	MG/KG		246.	2.9	1.00
	MERCURY, TOTAL	0033	F	18-MAY-89	MG/KG	U	0.11	0.11	1.00
	NICKEL, TOTAL	0033	F	18-MAY-89	MG/KG	U	7.6	7.6	1.00
	POTASSIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	954.	954.	1.00
	SELENIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	0.98	0.98	1.00
	SILVER, TOTAL	0033	F	18-MAY-89	MG/KG	U	1.9	1.9	1.00
	SODIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	954.	954.	1.00
	THALLIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	2.0	2.0	1.00
	VANADIUM, TOTAL	0033	F	18-MAY-89	MG/KG	U	9.5	9.5	1.00
	ZINC, TOTAL	0033	F	18-MAY-89	MG/KG		16.5	3.8	1.00
44.0 - 49.0	ALUMINUM, TOTAL	0049	F	22-MAY-89	MG/KG		565.	39.9	1.00
	ANTIMONY, TOTAL	0049	F	22-MAY-89	MG/KG	U	12.0	12.0	1.00
	ARSENIC, TOTAL	0049	F	22-MAY-89	MG/KG	U	2.1	2.1	1.00
	BARIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	39.9	39.9	1.00
	BERYLLIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	1.0	1.0	1.00
	CADMIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	1.0	1.0	1.00
	CALCIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	998.	998.	1.00
	CHROMIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	2.0	2.0	1.00
	COBALT, TOTAL	0049	F	22-MAY-89	MG/KG	U	10.	10.	1.00
	COPPER, TOTAL	0049	F	22-MAY-89	MG/KG	U	5.0	5.0	1.00
	IRON, TOTAL	0049	F	22-MAY-89	MG/KG		2340.	20.0	1.00
	LEAD, TOTAL	0049	F	22-MAY-89	MG/KG		3.9	1.1	1.00
	MAGNESIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	998.	998.	1.00
	MANGANESE, TOTAL	0049	F	22-MAY-89	MG/KG		152.	3.0	1.00
	MERCURY, TOTAL	0049	F	22-MAY-89	MG/KG	U	0.11	0.11	1.00
	NICKEL, TOTAL	0049	F	22-MAY-89	MG/KG	U	8.0	8.0	1.00
	POTASSIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	998.	998.	1.00
	SELENIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	1.1	1.1	1.00
	SILVER, TOTAL	0049	F	22-MAY-89	MG/KG	U	2.0	2.0	1.00
	SODIUM, TOTAL	0049	F	22-MAY-89	MG/KG	U	998.	998.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	1,3,5-TNB	0033	F	18-MAY-89	UG/KG	U	1.84	1.84	1.00
	1,3-DNB	0033	F	18-MAY-89	UG/KG	U	0.52	0.52	1.00
	2,4,6-TNT	0033	F	18-MAY-89	UG/KG	U	1.69	1.69	1.00
	2,4-DINITROTOLUENE	0033	F	18-MAY-89	UG/KG	U	0.37	0.37	1.00
	2,6-DINITROTOLUENE	0033	F	18-MAY-89	UG/KG	U	0.35	0.35	1.00
	HMX	0033	F	18-MAY-89	UG/KG	U	1.12	1.12	1.00
	NITROBENZENE	0033	F	18-MAY-89	UG/KG	U	0.37	0.37	1.00
	RDX	0033	F	18-MAY-89	UG/KG	U	0.86	0.86	1.00
	TETRYL	0033	F	18-MAY-89	UG/KG	U	4.40	4.40	1.00
44.0 - 49.0	1,3,5-TNB	0049	F	22-MAY-89	UG/KG	U	2.17	2.17	1.00
	1,3-DNB	0049	F	22-MAY-89	UG/KG	U	0.61	0.61	1.00
	2,4,6-TNT	0049	F	22-MAY-89	UG/KG	U	2.00	2.00	1.00
	2,4-DINITROTOLUENE	0049	F	22-MAY-89	UG/KG	U	0.44	0.44	1.00
	2,6-DINITROTOLUENE	0049	F	22-MAY-89	UG/KG	U	0.42	0.42	1.00
	HMX	0049	F	22-MAY-89	UG/KG	U	1.32	1.32	1.00
	NITROBENZENE	0049	F	22-MAY-89	UG/KG	U	0.44	0.44	1.00
	RDX	0049	F	22-MAY-89	UG/KG	U	1.02	1.02	1.00
	TETRYL	0049	F	22-MAY-89	UG/KG	U	5.20	5.20	1.00
	1,3,5-TNB	A049	MS	22-MAY-89	% RECOVERY		97.	0.0	1.00
	1,3-DNB	A049	MS	22-MAY-89	% RECOVERY		97.	0.0	1.00
	2,4,6-TNT	A049	MS	22-MAY-89	% RECOVERY		95.	0.0	1.00
	2,4-DINITROTOLUENE	A049	MS	22-MAY-89	% RECOVERY		96.	0.0	1.00
	2,6-DINITROTOLUENE	A049	MS	22-MAY-89	% RECOVERY		96.	0.0	1.00
	HMX	A049	MS	22-MAY-89	% RECOVERY		102.	0.0	1.00
	NITROBENZENE	A049	MS	22-MAY-89	% RECOVERY		93.	0.0	1.00
	RDX	A049	MS	22-MAY-89	% RECOVERY		98.	0.0	1.00
	TETRYL	A049	MS	22-MAY-89	% RECOVERY		90.	0.0	1.00
	1,3,5-TNB	B049	MD	22-MAY-89	% RECOVERY		74.	0.0	1.00
	1,3-DNB	B049	MD	22-MAY-89	% RECOVERY		77.	0.0	1.00
	2,4,6-TNT	B049	MD	22-MAY-89	% RECOVERY		67.	0.0	1.00
	2,4-DINITROTOLUENE	B049	MD	22-MAY-89	% RECOVERY		71.	0.0	1.00
	2,6-DINITROTOLUENE	B049	MD	22-MAY-89	% RECOVERY		70.	0.0	1.00
	HMX	B049	MD	22-MAY-89	% RECOVERY		69.	0.0	1.00
	NITROBENZENE	B049	MD	22-MAY-89	% RECOVERY		70.	0.0	1.00
	RDX	B049	MD	22-MAY-89	% RECOVERY		74.	0.0	1.00
	TETRYL	B049	MD	22-MAY-89	% RECOVERY		62.	0.0	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
MD = MATRIX DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	POTASSIUM-40	0033	F	18-MAY-89	PCI/G		15.	-	-
	RADIUM-226	0033	F	18-MAY-89	PCI/G		0.6	-	-
	THORIUM-232	0033	F	18-MAY-89	PCI/G		0.5	-	-
	URANIUM, TOTAL	0033	F	18-MAY-89	UG/G		3.5	-	-
	URANIUM-238	0033	F	18-MAY-89	PCI/G	U	2.	-	-
33.0 - 35.0	POTASSIUM-40	0035	F	18-MAY-89	PCI/G		19.	-	-
	RADIUM-226	0035	F	18-MAY-89	PCI/G		0.7	-	-
	THORIUM-232	0035	F	18-MAY-89	PCI/G		1.0	-	-
	URANIUM, TOTAL	0035	F	18-MAY-89	UG/G		3.0	-	-
	URANIUM-238	0035	F	18-MAY-89	PCI/G	U	3.	-	-
35.0 - 40.0	POTASSIUM-40	0040	F	18-MAY-89	PCI/G		11.	-	-
	RADIUM-226	0040	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0040	F	18-MAY-89	PCI/G		0.5	-	-
	URANIUM, TOTAL	0040	F	18-MAY-89	UG/G		3.2	-	-
	URANIUM-238	0040	F	18-MAY-89	PCI/G		1.0	-	-
44.0 - 49.0	CESIUM-137	0049	F	22-MAY-89	PCI/G	U	0.1	-	-
	POTASSIUM-40	0049	F	22-MAY-89	PCI/G		29.	-	-
	RADIUM-226	0049	F	22-MAY-89	PCI/G		2.3	-	-
	THORIUM-232	0049	F	22-MAY-89	PCI/G		2.6	-	-
	URANIUM, TOTAL	0049	F	22-MAY-89	UG/G		7.7	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
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SAMPLE TYPE CODES:
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SOIL CHEMISTRY DATA
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NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	% SOLIDS	0033	F	18-MAY-89	%		94.3	0.10	0.00
44.0 - 49.0	% SOLIDS	0049	F	22-MAY-89	%		91.5	0.10	-
	% SOLIDS	C049	LD	22-MAY-89	%DIFFRENCE		0.90	0.0	-

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
33.0 - 38.0	ALUMINUM, TOTAL	0038	F	16-MAY-89	MG/KG		1150.	35.9	1.00
	ANTIMONY, TOTAL	0038	F	16-MAY-89	MG/KG	U	10.8	10.8	1.00
	ARSENIC, TOTAL	0038	F	16-MAY-89	MG/KG	U	2.0	2.0	1.00
	BARIUM, TOTAL	0038	F	16-MAY-89	MG/KG		88.0	35.9	1.00
	BERYLLIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	0.90	0.90	1.00
	CADMIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	0.90	0.90	1.00
	CALCIUM, TOTAL	0038	F	16-MAY-89	MG/KG		2910.	897.	1.00
	CHROMIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	1.8	1.8	1.00
	COBALT, TOTAL	0038	F	16-MAY-89	MG/KG	U	9.0	9.0	1.00
	COPPER, TOTAL	0038	F	16-MAY-89	MG/KG	U	4.5	4.5	1.00
	IRON, TOTAL	0038	F	16-MAY-89	MG/KG		2070.	17.9	1.00
	LEAD, TOTAL	0038	F	16-MAY-89	MG/KG		2.1	1.0	1.00
	MAGNESIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	897.	897.	1.00
	MANGANESE, TOTAL	0038	F	16-MAY-89	MG/KG		188.	2.7	1.00
	MERCURY, TOTAL	0038	F	16-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0038	F	16-MAY-89	MG/KG	U	7.2	7.2	1.00
	POTASSIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	897.	897.	1.00
	SELENIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	1.0	1.0	1.00
	SILVER, TOTAL	0038	F	16-MAY-89	MG/KG	U	1.8	1.8	1.00
	SODIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	897.	897.	1.00
	THALLIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	2.0	2.0	1.00
	VANADIUM, TOTAL	0038	F	16-MAY-89	MG/KG	U	9.0	9.0	1.00
	ZINC, TOTAL	0038	F	16-MAY-89	MG/KG		30.0	3.6	1.00
	ALUMINUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		443.	0.0	1.00
	ANTIMONY, TOTAL	A038	MS	16-MAY-89	% RECOVERY		42.7	0.0	1.00
	ARSENIC, TOTAL	A038	MS	16-MAY-89	% RECOVERY		83.0	0.0	1.00
	BARIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		97.0	0.0	1.00
	BERYLLIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		92.8	0.0	1.00
	CADMIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		83.8	0.0	1.00
	CALCIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		192.	0.0	1.00
	CHROMIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		96.8	0.0	1.00
	COBALT, TOTAL	A038	MS	16-MAY-89	% RECOVERY		89.4	0.0	1.00
	COPPER, TOTAL	A038	MS	16-MAY-89	% RECOVERY		99.0	0.0	1.00
	IRON, TOTAL	A038	MS	16-MAY-89	% RECOVERY		376.	0.0	1.00
	LEAD, TOTAL	A038	MS	16-MAY-89	% RECOVERY		89.7	0.0	1.00
	MAGNESIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		104.	0.0	1.00
	MANGANESE, TOTAL	A038	MS	16-MAY-89	% RECOVERY		156.	0.0	1.00
	MERCURY, TOTAL	A038	MS	16-MAY-89	% RECOVERY		72.7	0.0	1.00
	NICKEL, TOTAL	A038	MS	16-MAY-89	% RECOVERY		93.4	0.0	1.00
	POTASSIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		97.3	0.0	1.00
	SELENIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		109.	0.0	1.00
	SILVER, TOTAL	A038	MS	16-MAY-89	% RECOVERY		65.4	0.0	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	1,1,1-TRICHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-CIS-DICHLOROETHENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE-d4	0043	F	16-MAY-89	% RECOVERY		97.	0.0	1.00
	1,2-DICHLOROPROPANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	4-METHYL-2-PENTANONE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	0043	F	16-MAY-89	UG/KG	B	20.	10.	1.00
	BENZENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	BROMODICHLOROMETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	0043	F	16-MAY-89	% RECOVERY		91.	0.0	1.00
	BROMOFORM	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOMETHANE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	CARBON DISULFIDE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	CARBON TETRACHLORIDE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROBENZENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROETHANE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	CHLOROFORM	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	0043	F	16-MAY-89	UG/KG	B	6.	5.	1.00
	ETHYLBENZENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE-d8 (BY GC)	0043	F	16-MAY-89	% RECOVERY		96.	0.0	1.00
	TOTAL XYLENES	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	0043	F	16-MAY-89	UG/KG	U	5.	5.	1.00
	VINYL ACETATE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	0043	F	16-MAY-89	UG/KG	U	10.	10.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
B = PRESENT IN BLANK
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

DATA FILE NAME: SCI11042.DAT

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	MERCURY, TOTAL	0043	F	16-MAY-89	MG/KG		2.1	0.10	1.00
	NICKEL, TOTAL	0043	F	16-MAY-89	MG/KG	U	6.4	6.4	1.00
	POTASSIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	798.	798.	1.00
	SELENIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	0.96	0.96	1.00
	SILVER, TOTAL	0043	F	16-MAY-89	MG/KG	U	1.6	1.6	1.00
	SODIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	798.	798.	1.00
	THALLIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	1.9	1.9	1.00
	VANADIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	8.0	8.0	1.00
	ZINC, TOTAL	0043	F	16-MAY-89	MG/KG		852.	3.2	1.00
43.0 - 48.0	ALUMINUM, TOTAL	0048	F	16-MAY-89	MG/KG		1520.	40.4	1.00
	ANTIMONY, TOTAL	0048	F	16-MAY-89	MG/KG	U	12.1	12.1	1.00
	ARSENIC, TOTAL	0048	F	16-MAY-89	MG/KG	U	1.9	1.9	1.00
	BARIUM, TOTAL	0048	F	16-MAY-89	MG/KG		143.	40.4	1.00
	BERYLLIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	1.0	1.0	1.00
	CADMIUM, TOTAL	0048	F	16-MAY-89	MG/KG		4.9	1.0	1.00
	CALCIUM, TOTAL	0048	F	16-MAY-89	MG/KG		2170.	1010.	1.00
	CHROMIUM, TOTAL	0048	F	16-MAY-89	MG/KG		3.3	2.0	1.00
	COBALT, TOTAL	0048	F	16-MAY-89	MG/KG	U	10.1	10.1	1.00
	COPPER, TOTAL	0048	F	16-MAY-89	MG/KG		59.3	5.1	1.00
	IRON, TOTAL	0048	F	16-MAY-89	MG/KG		5220.	20.2	1.00
	LEAD, TOTAL	0048	F	16-MAY-89	MG/KG		4.0	3.8	4.00
	MAGNESIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	1010.	1010.	1.00
	MANGANESE, TOTAL	0048	F	16-MAY-89	MG/KG		779.	3.0	1.00
	MERCURY, TOTAL	0048	F	16-MAY-89	MG/KG		1.1	0.10	1.00
	NICKEL, TOTAL	0048	F	16-MAY-89	MG/KG		9.7	8.1	1.00
	POTASSIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	1010.	1010.	1.00
	SELENIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	0.94	0.94	1.00
	SILVER, TOTAL	0048	F	16-MAY-89	MG/KG	U	2.0	2.0	1.00
	SODIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	1010.	1010.	1.00
	THALLIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	1.9	1.9	1.00
	VANADIUM, TOTAL	0048	F	16-MAY-89	MG/KG	U	10.1	10.1	1.00
	ZINC, TOTAL	0048	F	16-MAY-89	MG/KG		652.	4.0	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

DATA FILE NAME: SCI11042.DAT

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
33.0 - 38.0	SODIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		97.0	0.0	1.00
	THALLIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		79.2	0.0	1.00
	VANADIUM, TOTAL	A038	MS	16-MAY-89	% RECOVERY		94.8	0.0	1.00
	ZINC, TOTAL	A038	MS	16-MAY-89	% RECOVERY		111.	0.0	1.00
	ALUMINUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		5.4	0.0	1.00
	ANTIMONY, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	ARSENIC, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	BARIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		4.3	0.0	1.00
	BERYLLIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	CADMIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	CALCIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		9.8	0.0	1.00
	CHROMIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	COBALT, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	COPPER, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	IRON, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		2.1	0.0	1.00
	LEAD, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		10.	0.0	1.00
	MAGNESIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	MANGANESE, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		3.6	0.0	1.00
	MERCURY, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	NICKEL, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	POTASSIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	SELENIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	SILVER, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	SODIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	THALLIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	VANADIUM, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00
	ZINC, TOTAL	C038	LD	16-MAY-89	%DIFFRENCE		33.3	0.0	1.00
38.0 - 43.0	ALUMINUM, TOTAL	0043	F	16-MAY-89	MG/KG		1180.	31.9	1.00
	ANTIMONY, TOTAL	0043	F	16-MAY-89	MG/KG	U	9.6	9.6	1.00
	ARSENIC, TOTAL	0043	F	16-MAY-89	MG/KG	U	1.9	1.9	1.00
	BARIUM, TOTAL	0043	F	16-MAY-89	MG/KG		113.	31.9	1.00
	BERYLLIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	0.80	0.80	1.00
	CADMIUM, TOTAL	0043	F	16-MAY-89	MG/KG		7.1	0.80	1.00
	CALCIUM, TOTAL	0043	F	16-MAY-89	MG/KG		3000.	798.	1.00
	CHROMIUM, TOTAL	0043	F	16-MAY-89	MG/KG		2.1	1.6	1.00
	COBALT, TOTAL	0043	F	16-MAY-89	MG/KG	U	8.0	8.0	1.00
	COPPER, TOTAL	0043	F	16-MAY-89	MG/KG		389.	4.0	1.00
	IRON, TOTAL	0043	F	16-MAY-89	MG/KG		5230.	16.0	1.00
	LEAD, TOTAL	0043	F	16-MAY-89	MG/KG		79.0	19.3	20.00
	MAGNESIUM, TOTAL	0043	F	16-MAY-89	MG/KG	U	798.	798.	1.00
	MANGANESE, TOTAL	0043	F	16-MAY-89	MG/KG		414.	2.4	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED
NC = NOT CALCULATED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
33.0 - 38.0	1,3,5-TNB	0038	F	16-MAY-89	UG/KG	U	1.63	1.63	1.00
	1,3-DNB	0038	F	16-MAY-89	UG/KG	U	0.46	0.46	1.00
	2,4,6-TNT	0038	F	16-MAY-89	UG/KG	U	1.50	1.50	1.00
	2,4-DINITROTOLUENE	0038	F	16-MAY-89	UG/KG	U	0.33	0.33	1.00
	2,6-DINITROTOLUENE	0038	F	16-MAY-89	UG/KG	U	0.31	0.31	1.00
	HMX	0038	F	16-MAY-89	UG/KG	U	0.99	0.99	1.00
	NITROBENZENE	0038	F	16-MAY-89	UG/KG	U	0.33	0.33	1.00
	RDX	0038	F	16-MAY-89	UG/KG	U	0.76	0.76	1.00
	TETRYL	0038	F	16-MAY-89	UG/KG	U	3.90	3.90	1.00
	1,3,5-TNB	A038	MS	16-MAY-89	% RECOVERY		81.	0.0	1.00
	1,3-DNB	A038	MS	16-MAY-89	% RECOVERY		86.	0.0	1.00
	2,4,6-TNT	A038	MS	16-MAY-89	% RECOVERY		79.	0.0	1.00
	2,4-DINITROTOLUENE	A038	MS	16-MAY-89	% RECOVERY		90.	0.0	1.00
	2,6-DINITROTOLUENE	A038	MS	16-MAY-89	% RECOVERY		90.	0.0	1.00
	HMX	A038	MS	16-MAY-89	% RECOVERY		95.	0.0	1.00
	NITROBENZENE	A038	MS	16-MAY-89	% RECOVERY		90.	0.0	1.00
	RDX	A038	MS	16-MAY-89	% RECOVERY		84.	0.0	1.00
	TETRYL	A038	MS	16-MAY-89	% RECOVERY		85.	0.0	1.00
	1,3,5-TNB	B038	MD	16-MAY-89	% RECOVERY		73.	0.0	1.00
	1,3-DNB	B038	MD	16-MAY-89	% RECOVERY		79.	0.0	1.00
	2,4,6-TNT	B038	MD	16-MAY-89	% RECOVERY		73.	0.0	1.00
	2,4-DINITROTOLUENE	B038	MD	16-MAY-89	% RECOVERY		83.	0.0	1.00
	2,6-DINITROTOLUENE	B038	MD	16-MAY-89	% RECOVERY		84.	0.0	1.00
	HMX	B038	MD	16-MAY-89	% RECOVERY		86.	0.0	1.00
	NITROBENZENE	B038	MD	16-MAY-89	% RECOVERY		84.	0.0	1.00
	RDX	B038	MD	16-MAY-89	% RECOVERY		75.	0.0	1.00
	TETRYL	B038	MD	16-MAY-89	% RECOVERY		78.	0.0	1.00
38.0 - 43.0	1,3,5-TNB	0043	F	16-MAY-89	UG/KG	U	1.48	1.48	1.00
	1,3-DNB	0043	F	16-MAY-89	UG/KG	U	0.42	0.42	1.00
	2,4,6-TNT	0043	F	16-MAY-89	UG/KG	U	1.36	1.36	1.00
	2,4-DINITROTOLUENE	0043	F	16-MAY-89	UG/KG	U	0.30	0.30	1.00
	2,6-DINITROTOLUENE	0043	F	16-MAY-89	UG/KG	U	0.28	0.28	1.00
	HMX	0043	F	16-MAY-89	UG/KG	U	0.90	0.90	1.00
	NITROBENZENE	0043	F	16-MAY-89	UG/KG	U	0.30	0.30	1.00
	RDX	0043	F	16-MAY-89	UG/KG	U	0.70	0.70	1.00
	TETRYL	0043	F	16-MAY-89	UG/KG	U	3.55	3.55	1.00
43.0 - 48.0	1,3,5-TNB	0048	F	16-MAY-89	UG/KG	U	1.71	1.71	1.00
	1,3-DNB	0048	F	16-MAY-89	UG/KG	U	0.48	0.48	1.00
	2,4,6-TNT	0048	F	16-MAY-89	UG/KG	U	1.57	1.57	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
MD = MATRIX DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
33.0 - 38.0	POTASSIUM-40	0038	F	18-MAY-89	PCI/G		12.	-	-
	RADIUM-226	0038	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0038	F	18-MAY-89	PCI/G		0.3	-	-
	URANIUM, TOTAL	0038	F	18-MAY-89	UG/G		2.5	-	-
	URANIUM-238	0038	F	18-MAY-89	PCI/G	U	2.	-	-
38.0 - 43.0	POTASSIUM-40	0043	F	18-MAY-89	PCI/G		12.	-	-
	RADIUM-226	0043	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0043	F	18-MAY-89	PCI/G		0.4	-	-
	URANIUM, TOTAL	0043	F	18-MAY-89	UG/G		2.6	-	-
	URANIUM-238	0043	F	18-MAY-89	PCI/G	U	2.	-	-
43.0 - 48.0	POTASSIUM-40	0048	F	18-MAY-89	PCI/G		12.	-	-
	RADIUM-226	0048	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0048	F	18-MAY-89	PCI/G		0.4	-	-
	URANIUM, TOTAL	0048	F	18-MAY-89	UG/G		2.2	-	-
	URANIUM-238	0048	F	18-MAY-89	PCI/G	U	2.	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

DATA FILE NAME: SCI11042.DAT

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
33.0 - 38.0	% SOLIDS	0038	F	16-MAY-89	%		97.6	0.10	-
	% SOLIDS	C038	LD	16-MAY-89	%DIFFRENCE		0.10	0.0	-
38.0 - 43.0	% SOLIDS	0043	F	16-MAY-89	%		96.9	0.10	-
43.0 - 48.0	% SOLIDS	0048	F	16-MAY-89	%		95.8	0.10	-

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE

DATA FILE NAME: SCI11042.DAT

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
16-MAY-89 TO 13-JUN-89
LOCATION: 0023
NORTH COORDINATE: 1736573.00
EAST COORDINATE: 505696.00
REPORT DATE: 25-SEP-89

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
43.0 - 48.0	2,4-DINITROTOLUENE	0048	F	16-MAY-89	UG/KG	U	0.34	0.34	1.00
	2,6-DINITROTOLUENE	0048	F	16-MAY-89	UG/KG	U	0.33	0.33	1.00
	HMX	0048	F	16-MAY-89	UG/KG	U	1.04	1.04	1.00
	NITROBENZENE	0048	F	16-MAY-89	UG/KG	U	0.34	0.34	1.00
	RDX	0048	F	16-MAY-89	UG/KG	U	0.80	0.80	1.00
	TETRYL	0048	F	16-MAY-89	UG/KG	U	4.10	4.10	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

DATA FILE NAME: SCI11042.DAT

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
15-MAY-89 TO 18-MAY-89
LOCATION: 0024

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	THALLIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	1.5	1.5	1.00
	VANADIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	7.8	7.8	1.00
	ZINC, TOTAL	0028	F	15-MAY-89	MG/KG		11.5	3.1	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
15-MAY-89 TO 18-MAY-89
LOCATION: 0024
NORTH COORDINATE: 1736569.00
EAST COORDINATE: 505707.00

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
18.0 - 23.0	ALUMINUM, TOTAL	0023	F	15-MAY-89	MG/KG		1540.	35.3	1.00
	ANTIMONY, TOTAL	0023	F	15-MAY-89	MG/KG	U	10.6	10.6	1.00
	ARSENIC, TOTAL	0023	F	15-MAY-89	MG/KG	U	1.5	1.5	1.00
	BARIUM, TOTAL	0023	F	15-MAY-89	MG/KG		99.0	35.3	1.00
	BERYLLIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	0.88	0.88	1.00
	CADMIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	0.88	0.88	1.00
	CALCIUM, TOTAL	0023	F	15-MAY-89	MG/KG		11200.	884.	1.00
	CHROMIUM, TOTAL	0023	F	15-MAY-89	MG/KG		1.9	1.8	1.00
	COBALT, TOTAL	0023	F	15-MAY-89	MG/KG	U	8.8	8.8	1.00
	COPPER, TOTAL	0023	F	15-MAY-89	MG/KG		36.8	4.4	1.00
	IRON, TOTAL	0023	F	15-MAY-89	MG/KG		2560.	17.7	1.00
	LEAD, TOTAL	0023	F	15-MAY-89	MG/KG	U	6.2	6.2	8.00
	MAGNESIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	884.	884.	1.00
	MANGANESE, TOTAL	0023	F	15-MAY-89	MG/KG		166.	2.7	1.00
	MERCURY, TOTAL	0023	F	15-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0023	F	15-MAY-89	MG/KG	U	7.1	7.1	1.00
	POTASSIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	884.	884.	1.00
	SELENIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	0.77	0.77	1.00
	SILVER, TOTAL	0023	F	15-MAY-89	MG/KG	U	1.8	1.8	1.00
	SODIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	884.	884.	1.00
	THALLIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	1.5	1.5	1.00
	VANADIUM, TOTAL	0023	F	15-MAY-89	MG/KG	U	8.8	8.8	1.00
	ZINC, TOTAL	0023	F	15-MAY-89	MG/KG		42.7	3.5	1.00
23.0 - 28.0	ALUMINUM, TOTAL	0028	F	15-MAY-89	MG/KG		665.	31.2	1.00
	ANTIMONY, TOTAL	0028	F	15-MAY-89	MG/KG	U	9.4	9.4	1.00
	ARSENIC, TOTAL	0028	F	15-MAY-89	MG/KG	U	1.5	1.5	1.00
	BARIUM, TOTAL	0028	F	15-MAY-89	MG/KG		50.6	31.2	1.00
	BERYLLIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	0.78	0.78	1.00
	CADMIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	0.78	0.78	1.00
	CALCIUM, TOTAL	0028	F	15-MAY-89	MG/KG		4840.	780.	1.00
	CHROMIUM, TOTAL	0028	F	15-MAY-89	MG/KG		1.7	1.6	1.00
	COBALT, TOTAL	0028	F	15-MAY-89	MG/KG	U	7.8	7.8	1.00
	COPPER, TOTAL	0028	F	15-MAY-89	MG/KG	U	3.9	3.9	1.00
	IRON, TOTAL	0028	F	15-MAY-89	MG/KG		1630.	15.6	1.00
	LEAD, TOTAL	0028	F	15-MAY-89	MG/KG		1.9	1.5	2.00
	MAGNESIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	780.	780.	1.00
	MANGANESE, TOTAL	0028	F	15-MAY-89	MG/KG		89.7	2.3	1.00
	MERCURY, TOTAL	0028	F	15-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0028	F	15-MAY-89	MG/KG	U	6.2	6.2	1.00
	POTASSIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	780.	780.	1.00
	SELENIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	0.77	0.77	1.00
	SILVER, TOTAL	0028	F	15-MAY-89	MG/KG	U	1.6	1.6	1.00
	SODIUM, TOTAL	0028	F	15-MAY-89	MG/KG	U	780.	780.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
15-MAY-89 TO 18-MAY-89
LOCATION: 0024
NORTH COORDINATE: 1736569.00
EAST COORDINATE: 505707.00

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
18.0 - 23.0	1,3,5-TNB	0023	F	15-MAY-89	UG/KG	U	2.05	2.05	1.00
	1,3-DNB	0023	F	15-MAY-89	UG/KG	U	0.58	0.58	1.00
	2,4,6-TNT	0023	F	15-MAY-89	UG/KG	U	1.88	1.88	1.00
	2,4-DINITROTOLUENE	0023	F	15-MAY-89	UG/KG	U	0.41	0.41	1.00
	2,6-DINITROTOLUENE	0023	F	15-MAY-89	UG/KG	U	0.39	0.39	1.00
	HMX	0023	F	15-MAY-89	UG/KG	U	1.24	1.24	1.00
	NITROBENZENE	0023	F	15-MAY-89	UG/KG	U	0.41	0.41	1.00
	RDX	0023	F	15-MAY-89	UG/KG	U	0.96	0.96	1.00
	TETRYL	0023	F	15-MAY-89	UG/KG	U	4.90	4.90	1.00
	1,3,5-TNB	A023	MS	15-MAY-89	% RECOVERY		118.	0.0	1.00
	1,3-DNB	A023	MS	15-MAY-89	% RECOVERY		125.	0.0	1.00
	2,4,6-TNT	A023	MS	15-MAY-89	% RECOVERY		119.	0.0	1.00
	2,4-DINITROTOLUENE	A023	MS	15-MAY-89	% RECOVERY		127.	0.0	1.00
	2,6-DINITROTOLUENE	A023	MS	15-MAY-89	% RECOVERY		120.	0.0	1.00
	HMX	A023	MS	15-MAY-89	% RECOVERY		96.	0.0	1.00
	NITROBENZENE	A023	MS	15-MAY-89	% RECOVERY		128.	0.0	1.00
	RDX	A023	MS	15-MAY-89	% RECOVERY		116.	0.0	1.00
	TETRYL	A023	MS	15-MAY-89	% RECOVERY		124.	0.0	1.00
	1,3,5-TNB	B023	MD	15-MAY-89	% RECOVERY		123.	0.0	1.00
	1,3-DNB	B023	MD	15-MAY-89	% RECOVERY		129.	0.0	1.00
	2,4,6-TNT	B023	MD	15-MAY-89	% RECOVERY		124.	0.0	1.00
	2,4-DINITROTOLUENE	B023	MD	15-MAY-89	% RECOVERY		132.	0.0	1.00
	2,6-DINITROTOLUENE	B023	MD	15-MAY-89	% RECOVERY		124.	0.0	1.00
	HMX	B023	MD	15-MAY-89	% RECOVERY		100.	0.0	1.00
	NITROBENZENE	B023	MD	15-MAY-89	% RECOVERY		128.	0.0	1.00
	RDX	B023	MD	15-MAY-89	% RECOVERY		122.	0.0	1.00
	TETRYL	B023	MD	15-MAY-89	% RECOVERY		130.	0.0	1.00
23.0 - 28.0	1,3,5-TNB	0028	F	15-MAY-89	UG/KG	U	2.09	2.09	1.00
	1,3-DNB	0028	F	15-MAY-89	UG/KG	U	0.59	0.59	1.00
	2,4,6-TNT	0028	F	15-MAY-89	UG/KG	U	1.92	1.92	1.00
	2,4-DINITROTOLUENE	0028	F	15-MAY-89	UG/KG	U	0.42	0.42	1.00
	2,6-DINITROTOLUENE	0028	F	15-MAY-89	UG/KG	U	0.40	0.40	1.00
	HMX	0028	F	15-MAY-89	UG/KG	U	1.27	1.27	1.00
	NITROBENZENE	0028	F	15-MAY-89	UG/KG	U	0.42	0.42	1.00
	RDX	0028	F	15-MAY-89	UG/KG	U	0.98	0.98	1.00
	TETRYL	0028	F	15-MAY-89	UG/KG	U	5.00	5.00	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
MD = MATRIX DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
15-MAY-89 TO 18-MAY-89
LOCATION: 0024
NORTH COORDINATE: 1736569.00
EAST COORDINATE: 505707.00

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
18.0 - 23.0	POTASSIUM-40	0023	F	18-MAY-89	PCI/G		10.	-	-
	RADIUM-226	0023	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0023	F	18-MAY-89	PCI/G		0.4	-	-
	URANIUM, TOTAL	0023	F	18-MAY-89	UG/G		2.9	-	-
	URANIUM-238	0023	F	18-MAY-89	PCI/G	U	2.	-	-
23.0 - 28.0	POTASSIUM-40	0028	F	18-MAY-89	PCI/G		12.	-	-
	RADIUM-226	0028	F	18-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0028	F	18-MAY-89	PCI/G		0.3	-	-
	URANIUM, TOTAL	0028	F	18-MAY-89	UG/G		2.8	-	-
	URANIUM-238	0028	F	18-MAY-89	PCI/G		2.	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
15-MAY-89 TO 18-MAY-89
LOCATION: 0024
NORTH COORDINATE: 1736569.00
EAST COORDINATE: 505707.00

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
18.0 - 23.0	% SOLIDS	0023	F	15-MAY-89	%		98.0	0.10	0.00
	% SOLIDS	C023	LD	15-MAY-89	%DIFFRENCE		0.30	0.0	0.00
23.0 - 28.0	% SOLIDS	0028	F	15-MAY-89	%		98.7	0.10	0.00

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
53.0 - 58.0	1,2-CIS-DICHLOROETHENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE-d4	0058	F	17-MAY-89	% RECOVERY		102.	0.0	1.00
	1,2-DICHLOROPROPANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	4-METHYL-2-PENTANONE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	0058	F	17-MAY-89	UG/KG	B	13.	10.	1.00
	BENZENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMODICHLOROMETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	0058	F	17-MAY-89	% RECOVERY		95.	0.0	1.00
	BROMOFORM	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOMETHANE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	CARBON DISULFIDE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CARBON TETRACHLORIDE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROBENZENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	CHLOROFORM	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	0058	F	17-MAY-89	UG/KG	JB	3.	5.	1.00
	ETHYLBENZENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE-d8 (BY GC)	0058	F	17-MAY-89	% RECOVERY		105.	0.0	1.00
	TOTAL XYLENES	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	VINYL ACETATE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	0058	F	17-MAY-89	UG/KG	U	10.	10.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
B = PRESENT IN BLANK
J = ESTIMATED VALUE PRESENT BELOW THE SAMPLE DETECTION LIMIT
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025
NORTH COORDINATE: 1736564.00
EAST COORDINATE: 505717.00

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	1,1,1-TRICHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-CIS-DICHLOROETHENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE-d4	0028	F	17-MAY-89	% RECOVERY		98.	0.0	1.00
	1,2-DICHLOROPROPANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	4-METHYL-2-PENTANONE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	BENZENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMODICHLOROMETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	0028	F	17-MAY-89	% RECOVERY		99.	0.0	1.00
	BROMOFORM	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOMETHANE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	CARBON DISULFIDE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CARBON TETRACHLORIDE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROBENZENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROETHANE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	CHLOROFORM	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	0028	F	17-MAY-89	UG/KG	B	79.	5.	1.00
	ETHYLBENZENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE-d8 (BY GC)	0028	F	17-MAY-89	% RECOVERY		99.	0.0	1.00
	TOTAL XYLENES	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	0028	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	VINYL ACETATE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	0028	F	17-MAY-89	UG/KG	U	10.	10.	1.00
53.0 - 58.0	1,1,1-TRICHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	0058	F	17-MAY-89	UG/KG	U	5.	5.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
B = PRESENT IN BLANK
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
43.0 - 48.0	THALLIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	1.7	1.7	1.00
	VANADIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	9.3	9.3	1.00
	ZINC, TOTAL	0048	F	17-MAY-89	MG/KG		32.5	3.7	1.00
	ALUMINUM, TOTAL	1048	FD	17-MAY-89	MG/KG		793.	36.4	1.00
	ANTIMONY, TOTAL	1048	FD	17-MAY-89	MG/KG	U	10.9	10.9	1.00
	ARSENIC, TOTAL	1048	FD	17-MAY-89	MG/KG	U	1.9	1.9	1.00
	BARIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	36.4	36.4	1.00
	BERYLLIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	0.91	0.91	1.00
	CADMIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	0.91	0.91	1.00
	CALCIUM, TOTAL	1048	FD	17-MAY-89	MG/KG		4470.	911.	1.00
	CHROMIUM, TOTAL	1048	FD	17-MAY-89	MG/KG		4.6	1.8	1.00
	COBALT, TOTAL	1048	FD	17-MAY-89	MG/KG	U	9.1	9.1	1.00
	COPPER, TOTAL	1048	FD	17-MAY-89	MG/KG		6.1	4.6	1.00
	IRON, TOTAL	1048	FD	17-MAY-89	MG/KG		4510.	18.2	1.00
	LEAD, TOTAL	1048	FD	17-MAY-89	MG/KG		3.7	0.96	1.00
	MAGNESIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	911.	911.	1.00
	MANGANESE, TOTAL	1048	FD	17-MAY-89	MG/KG		164.	2.7	1.00
	MERCURY, TOTAL	1048	FD	17-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	1048	FD	17-MAY-89	MG/KG	U	7.3	7.3	1.00
	POTASSIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	911.	911.	1.00
	SELENIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	0.96	0.96	1.00
	SILVER, TOTAL	1048	FD	17-MAY-89	MG/KG	U	1.8	1.8	1.00
	SODIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	911.	911.	1.00
	THALLIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	1.9	1.9	1.00
	VANADIUM, TOTAL	1048	FD	17-MAY-89	MG/KG	U	9.1	9.1	1.00
	ZINC, TOTAL	1048	FD	17-MAY-89	MG/KG		36.2	3.6	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025
NORTH COORDINATE: 1736564.00
EAST COORDINATE: 505717.00

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	ALUMINUM, TOTAL	0043	F	17-MAY-89	MG/KG		804.	35.8	1.00
	ANTIMONY, TOTAL	0043	F	17-MAY-89	MG/KG	U	10.7	10.7	1.00
	ARSENIC, TOTAL	0043	F	17-MAY-89	MG/KG	U	1.5	1.5	1.00
	BARIUM, TOTAL	0043	F	17-MAY-89	MG/KG		57.8	35.8	1.00
	BERYLLIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	0.89	0.89	1.00
	CADMIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	0.89	0.89	1.00
	CALCIUM, TOTAL	0043	F	17-MAY-89	MG/KG		5980.	894.	1.00
	CHROMIUM, TOTAL	0043	F	17-MAY-89	MG/KG		2.0	1.8	1.00
	COBALT, TOTAL	0043	F	17-MAY-89	MG/KG	U	8.9	8.9	1.00
	COPPER, TOTAL	0043	F	17-MAY-89	MG/KG	U	4.5	4.5	1.00
	IRON, TOTAL	0043	F	17-MAY-89	MG/KG		1840.	17.9	1.00
	LEAD, TOTAL	0043	F	17-MAY-89	MG/KG		1.4	0.77	1.00
	MAGNESIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	894.	894.	1.00
	MANGANESE, TOTAL	0043	F	17-MAY-89	MG/KG		82.1	2.7	1.00
	MERCURY, TOTAL	0043	F	17-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0043	F	17-MAY-89	MG/KG	U	7.2	7.2	1.00
	POTASSIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	894.	894.	1.00
	SELENIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	0.77	0.77	1.00
	SILVER, TOTAL	0043	F	17-MAY-89	MG/KG	U	1.8	1.8	1.00
	SODIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	894.	894.	1.00
	THALLIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	1.5	1.5	1.00
	VANADIUM, TOTAL	0043	F	17-MAY-89	MG/KG	U	8.9	8.9	1.00
	ZINC, TOTAL	0043	F	17-MAY-89	MG/KG		25.0	3.6	1.00
43.0 - 48.0	ALUMINUM, TOTAL	0048	F	17-MAY-89	MG/KG		827.	37.2	1.00
	ANTIMONY, TOTAL	0048	F	17-MAY-89	MG/KG	U	11.1	11.1	1.00
	ARSENIC, TOTAL	0048	F	17-MAY-89	MG/KG	U	1.7	1.7	1.00
	BARIUM, TOTAL	0048	F	17-MAY-89	MG/KG		47.5	37.2	1.00
	BERYLLIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	0.93	0.93	1.00
	CADMIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	0.93	0.93	1.00
	CALCIUM, TOTAL	0048	F	17-MAY-89	MG/KG		5220.	929.	1.00
	CHROMIUM, TOTAL	0048	F	17-MAY-89	MG/KG		2.3	1.9	1.00
	COBALT, TOTAL	0048	F	17-MAY-89	MG/KG	U	9.3	9.3	1.00
	COPPER, TOTAL	0048	F	17-MAY-89	MG/KG		7.7	4.6	1.00
	IRON, TOTAL	0048	F	17-MAY-89	MG/KG		2750.	18.6	1.00
	LEAD, TOTAL	0048	F	17-MAY-89	MG/KG		2.8	0.86	1.00
	MAGNESIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	929.	929.	1.00
	MANGANESE, TOTAL	0048	F	17-MAY-89	MG/KG		105.	2.8	1.00
	MERCURY, TOTAL	0048	F	17-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0048	F	17-MAY-89	MG/KG	U	7.4	7.4	1.00
	POTASSIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	929.	929.	1.00
	SELENIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	0.86	0.86	1.00
	SILVER, TOTAL	0048	F	17-MAY-89	MG/KG	U	1.9	1.9	1.00
	SODIUM, TOTAL	0048	F	17-MAY-89	MG/KG	U	929.	929.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025
NORTH COORDINATE: 1736564.00
EAST COORDINATE: 505717.00

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	1,3,5-TNB	0043	F	17-MAY-89	UG/KG	U	1.48	1.48	1.00
	1,3-DNB	0043	F	17-MAY-89	UG/KG	U	0.42	0.42	1.00
	2,4,6-TNT	0043	F	17-MAY-89	UG/KG	U	1.36	1.36	1.00
	2,4-DINITROTOLUENE	0043	F	17-MAY-89	UG/KG	U	0.30	0.30	1.00
	2,6-DINITROTOLUENE	0043	F	17-MAY-89	UG/KG	U	0.28	0.28	1.00
	HMX	0043	F	17-MAY-89	UG/KG	U	0.90	0.90	1.00
	NITROBENZENE	0043	F	17-MAY-89	UG/KG	U	0.30	0.30	1.00
	RDX	0043	F	17-MAY-89	UG/KG	U	0.70	0.70	1.00
	TETRYL	0043	F	17-MAY-89	UG/KG	U	3.55	3.55	1.00
43.0 - 48.0	1,3,5-TNB	0048	F	17-MAY-89	UG/KG	U	1.55	1.55	1.00
	1,3-DNB	0048	F	17-MAY-89	UG/KG	U	0.44	0.44	1.00
	2,4,6-TNT	0048	F	17-MAY-89	UG/KG	U	1.42	1.42	1.00
	2,4-DINITROTOLUENE	0048	F	17-MAY-89	UG/KG	U	0.31	0.31	1.00
	2,6-DINITROTOLUENE	0048	F	17-MAY-89	UG/KG	U	0.30	0.30	1.00
	HMX	0048	F	17-MAY-89	UG/KG	U	0.94	0.94	1.00
	NITROBENZENE	0048	F	17-MAY-89	UG/KG	U	0.31	0.31	1.00
	RDX	0048	F	17-MAY-89	UG/KG	U	0.73	0.73	1.00
	TETRYL	0048	F	17-MAY-89	UG/KG	U	3.70	3.70	1.00
	1,3,5-TNB	1048	FD	17-MAY-89	UG/KG	U	1.50	1.50	1.00
	1,3-DNB	1048	FD	17-MAY-89	UG/KG	U	0.42	0.42	1.00
	2,4,6-TNT	1048	FD	17-MAY-89	UG/KG	U	1.38	1.38	1.00
	2,4-DINITROTOLUENE	1048	FD	17-MAY-89	UG/KG	U	0.30	0.30	1.00
	2,6-DINITROTOLUENE	1048	FD	17-MAY-89	UG/KG	U	0.29	0.29	1.00
	HMX	1048	FD	17-MAY-89	UG/KG	U	0.91	0.91	1.00
	NITROBENZENE	1048	FD	17-MAY-89	UG/KG	U	0.30	0.30	1.00
	RDX	1048	FD	17-MAY-89	UG/KG	U	0.71	0.71	1.00
	TETRYL	1048	FD	17-MAY-89	UG/KG	U	3.60	3.60	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025
NORTH COORDINATE: 1736564.00
EAST COORDINATE: 505717.00

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	POTASSIUM-40	0043	F	18-MAY-89	PCI/G		18.	-	-
	RADIUM-226	0043	F	18-MAY-89	PCI/G		0.5	-	-
	THORIUM-232	0043	F	18-MAY-89	PCI/G		0.6	-	-
	URANIUM, TOTAL	0043	F	18-MAY-89	UG/G		2.5	-	-
	URANIUM-238	0043	F	18-MAY-89	PCI/G	U	2.	-	-
43.0 - 48.0	POTASSIUM-40	0048	F	18-MAY-89	PCI/G		13.	-	-
	RADIUM-226	0048	F	18-MAY-89	PCI/G		0.7	-	-
	THORIUM-232	0048	F	18-MAY-89	PCI/G		0.9	-	-
	URANIUM, TOTAL	0048	F	18-MAY-89	UG/G		3.1	-	-
	URANIUM-238	0048	F	18-MAY-89	PCI/G	U	2.	-	-
	POTASSIUM-40	1048	FD	18-MAY-89	PCI/G		16.	-	-
	RADIUM-226	1048	FD	18-MAY-89	PCI/G		1.2	-	-
	THORIUM-232	1048	FD	18-MAY-89	PCI/G		1.3	-	-
	URANIUM, TOTAL	1048	FD	18-MAY-89	UG/G		4.7	-	-
	URANIUM-238	1048	FD	18-MAY-89	PCI/G		4.	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
17-MAY-89 TO 18-MAY-89
LOCATION: 0025
NORTH COORDINATE: 1736564.00
EAST COORDINATE: 505717.00

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	% SOLIDS	0043	F	17-MAY-89	%		98.0	0.10	0.00
	% SOLIDS	C043	LD	17-MAY-89	%DIFFRENCE		1.5	0.0	0.00
43.0 - 48.0	% SOLIDS	0048	F	17-MAY-89	%		97.3	0.10	0.00
	% SOLIDS	1048	FD	17-MAY-89	%		96.4	0.10	0.00

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
22-MAY-89 TO 13-JUN-89
LOCATION: 0020

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
43.0 - 46.0	THALLIUM, TOTAL	0046	F	22-MAY-89	MG/KG	U	1.9	1.9	1.00
	VANADIUM, TOTAL	0046	F	22-MAY-89	MG/KG		9.2	8.2	1.00
	ZINC, TOTAL	0046	F	22-MAY-89	MG/KG		24.6	3.3	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
22-MAY-89 TO 13-JUN-89
LOCATION: 0020
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
13.0 - 18.0	ALUMINUM, TOTAL	0018	F	22-MAY-89	MG/KG		1550.	32.1	1.00
	ANTIMONY, TOTAL	0018	F	22-MAY-89	MG/KG	U	9.6	9.6	1.00
	ARSENIC, TOTAL	0018	F	22-MAY-89	MG/KG	U	1.8	1.8	1.00
	BARIUM, TOTAL	0018	F	22-MAY-89	MG/KG		81.0	32.1	1.00
	BERYLLIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	0.80	0.80	1.00
	CADMIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	0.80	0.80	1.00
	CALCIUM, TOTAL	0018	F	22-MAY-89	MG/KG		2350.	803.	1.00
	CHROMIUM, TOTAL	0018	F	22-MAY-89	MG/KG		1.9	1.6	1.00
	COBALT, TOTAL	0018	F	22-MAY-89	MG/KG	U	8.0	8.0	1.00
	COPPER, TOTAL	0018	F	22-MAY-89	MG/KG		4.3	4.0	1.00
	IRON, TOTAL	0018	F	22-MAY-89	MG/KG		2280.	16.1	1.00
	LEAD, TOTAL	0018	F	22-MAY-89	MG/KG		2.9	0.90	1.00
	MAGNESIUM, TOTAL	0018	F	22-MAY-89	MG/KG		820.	803.	1.00
	MANGANESE, TOTAL	0018	F	22-MAY-89	MG/KG		191.	2.4	1.00
	MERCURY, TOTAL	0018	F	22-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0018	F	22-MAY-89	MG/KG	U	6.4	6.4	1.00
	POTASSIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	803.	803.	1.00
	SELENIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	0.90	0.90	1.00
	SILVER, TOTAL	0018	F	22-MAY-89	MG/KG	U	1.6	1.6	1.00
	SODIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	803.	803.	1.00
	THALLIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	1.8	1.8	1.00
	VANADIUM, TOTAL	0018	F	22-MAY-89	MG/KG	U	8.0	8.0	1.00
	ZINC, TOTAL	0018	F	22-MAY-89	MG/KG		15.1	3.2	1.00
43.0 - 46.0	ALUMINUM, TOTAL	0046	F	22-MAY-89	MG/KG		2620.	32.6	1.00
	ANTIMONY, TOTAL	0046	F	22-MAY-89	MG/KG	U	9.8	9.8	1.00
	ARSENIC, TOTAL	0046	F	22-MAY-89	MG/KG	U	1.9	1.9	1.00
	BARIUM, TOTAL	0046	F	22-MAY-89	MG/KG		125.	32.6	1.00
	BERYLLIUM, TOTAL	0046	F	22-MAY-89	MG/KG	U	0.82	0.82	1.00
	CADMIUM, TOTAL	0046	F	22-MAY-89	MG/KG	U	0.82	0.82	1.00
	CALCIUM, TOTAL	0046	F	22-MAY-89	MG/KG		3460.	815.	1.00
	CHROMIUM, TOTAL	0046	F	22-MAY-89	MG/KG		2.5	1.6	1.00
	COBALT, TOTAL	0046	F	22-MAY-89	MG/KG	U	8.2	8.2	1.00
	COPPER, TOTAL	0046	F	22-MAY-89	MG/KG		5.6	4.1	1.00
	IRON, TOTAL	0046	F	22-MAY-89	MG/KG		4260.	16.3	1.00
	LEAD, TOTAL	0046	F	22-MAY-89	MG/KG		3.3	0.95	1.00
	MAGNESIUM, TOTAL	0046	F	22-MAY-89	MG/KG		1240.	815.	1.00
	MANGANESE, TOTAL	0046	F	22-MAY-89	MG/KG		282.	2.4	1.00
	MERCURY, TOTAL	0046	F	22-MAY-89	MG/KG	U	0.10	0.10	1.00
	NICKEL, TOTAL	0046	F	22-MAY-89	MG/KG	U	6.5	6.5	1.00
	POTASSIUM, TOTAL	0046	F	22-MAY-89	MG/KG		837.	815.	1.00
	SELENIUM, TOTAL	0046	F	22-MAY-89	MG/KG	U	0.94	0.94	1.00
	SILVER, TOTAL	0046	F	22-MAY-89	MG/KG	U	1.6	1.6	1.00
	SODIUM, TOTAL	0046	F	22-MAY-89	MG/KG	U	815.	815.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
22-MAY-89 TO 13-JUN-89
LOCATION: 0020
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
13.0 - 18.0	1,3,5-TNB	0018	F	22-MAY-89	UG/KG	U	2.15	2.15	1.00
	1,3-DNB	0018	F	22-MAY-89	UG/KG	U	0.61	0.61	1.00
	2,4,6-TNT	0018	F	22-MAY-89	UG/KG	U	1.98	1.98	1.00
	2,4-DINITROTOLUENE	0018	F	22-MAY-89	UG/KG	U	0.43	0.43	1.00
	2,6-DINITROTOLUENE	0018	F	22-MAY-89	UG/KG	U	0.41	0.41	1.00
	HMX	0018	F	22-MAY-89	UG/KG	U	1.31	1.31	1.00
	NITROBENZENE	0018	F	22-MAY-89	UG/KG	U	0.43	0.43	1.00
	RDX	0018	F	22-MAY-89	UG/KG	U	1.01	1.01	1.00
	TETRYL	0018	F	22-MAY-89	UG/KG	U	5.15	5.15	1.00
43.0 - 46.0	1,3,5-TNB	0046	F	22-MAY-89	UG/KG	U	2.11	2.11	1.0
	1,3-DNB	0046	F	22-MAY-89	UG/KG	U	0.60	0.60	1.0
	2,4,6-TNT	0046	F	22-MAY-89	UG/KG	U	1.94	1.94	1.00
	2,4-DINITROTOLUENE	0046	F	22-MAY-89	UG/KG	U	0.42	0.42	1.00
	2,6-DINITROTOLUENE	0046	F	22-MAY-89	UG/KG	U	0.40	0.40	1.00
	HMX	0046	F	22-MAY-89	UG/KG	U	1.28	1.28	1.00
	NITROBENZENE	0046	F	22-MAY-89	UG/KG	U	0.42	0.42	1.00
	RDX	0046	F	22-MAY-89	UG/KG	U	0.99	0.99	1.00
	TETRYL	0046	F	22-MAY-89	UG/KG	U	5.05	5.05	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
22-MAY-89 TO 13-JUN-89
LOCATION: 0020
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
38.0 - 43.0	CESIUM-137	0043	F	22-MAY-89	PCI/G	U	0.1	-	-
	POTASSIUM-40	0043	F	22-MAY-89	PCI/G		20.	-	-
	RADIUM-226	0043	F	22-MAY-89	PCI/G		0.6	-	-
	THORIUM-232	0043	F	22-MAY-89	PCI/G		0.8	-	-
	URANIUM, TOTAL	0043	F	22-MAY-89	UG/G		1.8	-	-
43.0 - 46.0	CESIUM-137	0046	F	22-MAY-89	PCI/G	U	0.1	-	-
	POTASSIUM-40	0046	F	22-MAY-89	PCI/G		19.	-	-
	RADIUM-226	0046	F	22-MAY-89	PCI/G		0.4	-	-
	THORIUM-232	0046	F	22-MAY-89	PCI/G		0.5	-	-
	URANIUM, TOTAL	0046	F	22-MAY-89	UG/G		2.8	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
22-MAY-89 TO 13-JUN-89
LOCATION: 0020
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
13.0 - 18.0	% SOLIDS	0018	F	22-MAY-89	%		96.0	0.10	-
43.0 - 46.0	% SOLIDS	0046	F	22-MAY-89	%		94.8	0.10	-

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 13-JUN-89
LOCATION: 0021
NORTH COORDINATE: 1736452.00
EAST COORDINATE: 505870.00

DEPTH RANGE (FT)	RADIONUCLIDES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	POTASSIUM-40	0028	F	18-MAY-89	PCI/G		16.	-	-
	RADIUM-226	0028	F	18-MAY-89	PCI/G		0.6	-	-
	THORIUM-232	0028	F	18-MAY-89	PCI/G		0.9	-	-
	URANIUM, TOTAL	0028	F	18-MAY-89	UG/G		4.5	-	-
	URANIUM-238	0028	F	18-MAY-89	PCI/G		1.1	-	-

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 13-JUN-89
LOCATION: 0021
NORTH COORDINATE: 1736452.00
EAST COORDINATE: 505870.00

DEPTH RANGE (FT)	METALS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	ALUMINUM, TOTAL	0028	F	18-MAY-89	MG/KG		1310.	38.7	1.00
	ANTIMONY, TOTAL	0028	F	18-MAY-89	MG/KG	U	11.6	11.6	1.00
	ARSENIC, TOTAL	0028	F	18-MAY-89	MG/KG	U	2.0	2.0	1.00
	BARIUM, TOTAL	0028	F	18-MAY-89	MG/KG		59.9	38.7	1.00
	BERYLLIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	0.97	0.97	1.00
	CADMIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	0.97	0.97	1.00
	CALCIUM, TOTAL	0028	F	18-MAY-89	MG/KG		2450.	968.	1.00
	CHROMIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	1.9	1.9	1.00
	COBALT, TOTAL	0028	F	18-MAY-89	MG/KG	U	9.7	9.7	1.00
	COPPER, TOTAL	0028	F	18-MAY-89	MG/KG	U	4.8	4.8	1.00
	IRON, TOTAL	0028	F	18-MAY-89	MG/KG		2050.	19.4	1.00
	LEAD, TOTAL	0028	F	18-MAY-89	MG/KG		3.2	0.98	1.00
	MAGNESIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	968.	968.	1.00
	MANGANESE, TOTAL	0028	F	18-MAY-89	MG/KG		189.	2.9	1.00
	MERCURY, TOTAL	0028	F	18-MAY-89	MG/KG	U	0.11	0.11	1.00
	NICKEL, TOTAL	0028	F	18-MAY-89	MG/KG	U	7.7	7.7	1.00
	POTASSIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	968.	968.	1.00
	SELENIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	0.98	0.98	1.00
	SILVER, TOTAL	0028	F	18-MAY-89	MG/KG	U	1.9	1.9	1.00
	SODIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	968.	968.	1.00
	THALLIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	2.0	2.0	1.00
	VANADIUM, TOTAL	0028	F	18-MAY-89	MG/KG	U	9.7	9.7	1.00
	ZINC, TOTAL	0028	F	18-MAY-89	MG/KG		18.0	3.9	1.00
	MERCURY, TOTAL	A028	MS	18-MAY-89	% RECOVERY		77.4	0.0	1.00
	MERCURY, TOTAL	C028	LD	18-MAY-89	%DIFFRENCE	NC	0.00	0.0	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED
NC = NOT CALCULATED

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 13-JUN-89
LOCATION: 0021
NORTH COORDINATE: 1736452.00
EAST COORDINATE: 505870.00

DEPTH RANGE (FT)	OTHER PARAMETERS	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	% SOLIDS	0028	F	18-MAY-89	%		93.5	0.10	0.00
	% SOLIDS	C028	LD	18-MAY-89	%DIFFRENCE		0.80	0.0	0.00

SAMPLE TYPE CODES:
F = FIELD SAMPLE
LD = LAB DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 13-JUN-89
LOCATION: 0021
NORTH COORDINATE: 1736452.00
EAST COORDINATE: 505870.00

DEPTH RANGE (FT)	EXPLOSIVES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
23.0 - 28.0	1,3,5-TNB	0028	F	18-MAY-89	UG/KG	U	1.76	1.76	1.00
	1,3-DNB	0028	F	18-MAY-89	UG/KG	U	0.50	0.50	1.00
	2,4,6-TNT	0028	F	18-MAY-89	UG/KG	U	1.61	1.61	1.00
	2,4-DINITROTOLUENE	0028	F	18-MAY-89	UG/KG	U	0.35	0.35	1.00
	2,6-DINITROTOLUENE	0028	F	18-MAY-89	UG/KG	U	0.34	0.34	1.00
	HMX	0028	F	18-MAY-89	UG/KG	U	1.07	1.07	1.00
	NITROBENZENE	0028	F	18-MAY-89	UG/KG	U	0.35	0.35	1.00
	RDX	0028	F	18-MAY-89	UG/KG	U	0.82	0.82	1.00
	TETRYL	0028	F	18-MAY-89	UG/KG	U	4.20	4.20	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
F = FIELD SAMPLE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	1,2-DICHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE-d4	A033	MS	18-MAY-89	% RECOVERY		110.	0.0	1.00
	1,2-DICHLOROPROPANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	4-METHYL-2-PENTANONE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	BENZENE	A033	MS	18-MAY-89	% RECOVERY		134.	0.0	1.00
	BROMODICHLOROMETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	A033	MS	18-MAY-89	% RECOVERY		104.	0.0	1.00
	BROMOFORM	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.0[illegible]
	BROMOMETHANE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.0[illegible]
	CARBON DISULFIDE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.[illegible]
	CARBON TETRACHLORIDE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.[illegible]
	CHLOROBENZENE	A033	MS	18-MAY-89	% RECOVERY		99.	0.0	1.[illegible]
	CHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.0[illegible]
	CHLOROFORM	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	A033	MS	18-MAY-89	UG/KG	B	9.	5.	1.00
	ETHYLBENZENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	A033	MS	18-MAY-89	% RECOVERY		109.	0.0	1.00
	TOLUENE-d8 (BY GC)	A033	MS	18-MAY-89	% RECOVERY		108.	0.0	1.00
	TOTAL XYLENES	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	A033	MS	18-MAY-89	% RECOVERY		103.	0.0	1.00
	VINYL ACETATE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	A033	MS	18-MAY-89	UG/KG	U	10.	10.	1.00
	1,1,1-TRICHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	B033	MD	18-MAY-89	% RECOVERY		157.	0.0	1.00
	1,2-CIS-DICHLOROETHENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.[illegible]
	1,2-DICHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1[illegible]
	1,2-DICHLOROETHANE-d4	B033	MD	18-MAY-89	% RECOVERY		105.	0.0	1[illegible]
	1,2-DICHLOROPROPANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
B = PRESENT IN BLANK
U = ANALYZED FOR BUT WAS NOT DETECTED

SAMPLE TYPE CODES:
MD = MATRIX DUPLICATE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022
NORTH COORDINATE: 1736447.00
EAST COORDINATE: 505878.00

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	1,1,1-TRICHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-CIS-DICHLOROETHENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,2-DICHLOROETHANE-d4	0033	F	18-MAY-89	% RECOVERY		98.	0.0	1.00
	1,2-DICHLOROPROPANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-CIS-DICHLOROPROPENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,3-TRANS-DICHLOROPROPENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	2-BUTANONE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	2-HEXANONE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	4-METHYL-2-PENTANONE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	0033	F	18-MAY-89	UG/KG	B	29.	10.	1.00
	BENZENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMODICHLOROMETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	0033	F	18-MAY-89	% RECOVERY		95.	0.0	1.00
	BROMOFORM	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOMETHANE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	CARBON DISULFIDE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	CARBON TETRACHLORIDE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROBENZENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROETHANE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	CHLOROFORM	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	0033	F	18-MAY-89	UG/KG	B	16.	5.	1.00
	ETHYLBENZENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE-d8 (BY GC)	0033	F	18-MAY-89	% RECOVERY		100.	0.0	1.00
	TOTAL XYLENES	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	0033	F	18-MAY-89	UG/KG	U	5.	5.	1.00
	VINYL ACETATE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	0033	F	18-MAY-89	UG/KG	U	10.	10.	1.00
	1,1,1-TRICHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2,2-TETRACHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1,2-TRICHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHANE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00
	1,1-DICHLOROETHENE	A033	MS	18-MAY-89	% RECOVERY		159.	0.0	1.00
	1,2-CIS-DICHLOROETHENE	A033	MS	18-MAY-89	UG/KG	U	5.	5.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
B = PRESENT IN BLANK
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SAMPLE TYPE CODES:
F = FIELD SAMPLE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
44.0 - 49.0	BROMOFORM	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOMETHANE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	CARBON DISULFIDE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	CARBON TETRACHLORIDE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROBENZENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	CHLOROFORM	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROMETHANE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	DIBROMOCHLOROMETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	0049	F	22-MAY-89	UG/KG	JB	5.	6.	1.00
	ETHYLBENZENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	STYRENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	TETRACHLOROETHENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	TOLUENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	TOLUENE-d8 (BY GC)	0049	F	22-MAY-89	% RECOVERY		98.	0.0	1.00
	TOTAL XYLENES	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	TRICHLOROETHENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	VINYL ACETATE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	VINYL CHLORIDE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	1,1,1-TRICHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2,2-TETRACHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2-TRICHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHENE	A049	MS	22-MAY-89	% RECOVERY		110.	0.0	1.00
	1,2-CIS-DICHLOROETHENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE-d4	A049	MS	22-MAY-89	% RECOVERY		106.	0.0	1.00
	1,2-DICHLOROPROPANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-CIS-DICHLOROPROPENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-TRANS-DICHLOROPROPENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	2-BUTANONE	A049	MS	22-MAY-89	UG/KG	B	11.	11.	1.00
	2-HEXANONE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	4-METHYL-2-PENTANONE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	ACETONE	A049	MS	22-MAY-89	UG/KG	JB	8.	11.	1.00
	BENZENE	A049	MS	22-MAY-89	% RECOVERY		97.	0.0	1.00
	BROMODICHLOROMETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOFLUOROBENZENE	A049	MS	22-MAY-89	% RECOVERY		101.	0.0	1.00
	BROMOFORM	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOMETHANE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	CARBON DISULFIDE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	CARBON TETRACHLORIDE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROBENZENE	A049	MS	22-MAY-89	% RECOVERY		103.	0.0	1.00
	CHLOROETHANE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
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SAMPLE TYPE CODES:
F = FIELD SAMPLE
MS = MATRIX SPIKE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
28.0 - 33.0	4-METHYL-2-PENTANONE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	ACETONE	B033	MD	18-MAY-89	UG/KG	B	30.	10.	1.00
	BENZENE	B033	MD	18-MAY-89	% RECOVERY		111.	0.0	1.00
	BROMODICHLOROMETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOFLUOROBENZENE	B033	MD	18-MAY-89	% RECOVERY		99.	0.0	1.00
	BROMOFORM	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	BROMOMETHANE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	CARBON DISULFIDE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	CARBON TETRACHLORIDE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROBENZENE	B033	MD	18-MAY-89	% RECOVERY		96.	0.0	1.00
	CHLOROETHANE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	CHLOROFORM	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	CHLOROMETHANE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	DIBROMOCHLOROMETHANE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	B033	MD	18-MAY-89	UG/KG	B	8.	5.	1.00
	ETHYLBENZENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	STYRENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	TETRACHLOROETHENE	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	TOLUENE	B033	MD	18-MAY-89	% RECOVERY		104.	0.0	1.00
	TOLUENE-d8 (BY GC)	B033	MD	18-MAY-89	% RECOVERY		103.	0.0	1.00
	TOTAL XYLENES	B033	MD	18-MAY-89	UG/KG	U	5.	5.	1.00
	TRICHLOROETHENE	B033	MD	18-MAY-89	% RECOVERY		73.	0.0	1.00
	VINYL ACETATE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
	VINYL CHLORIDE	B033	MD	18-MAY-89	UG/KG	U	10.	10.	1.00
44.0 - 49.0	1,1,1-TRICHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2,2-TETRACHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2-TRICHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-CIS-DICHLOROETHENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE-d4	0049	F	22-MAY-89	% RECOVERY		101.	0.0	1.00
	1,2-DICHLOROPROPANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-CIS-DICHLOROPROPENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-TRANS-DICHLOROPROPENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	2-BUTANONE	0049	F	22-MAY-89	UG/KG	B	12.	11.	1.00
	2-HEXANONE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	4-METHYL-2-PENTANONE	0049	F	22-MAY-89	UG/KG	U	11.	11.	1.00
	ACETONE	0049	F	22-MAY-89	UG/KG	JB	7.	11.	1.00
	BENZENE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMODICHLOROMETHANE	0049	F	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOFLUOROBENZENE	0049	F	22-MAY-89	% RECOVERY		98.	0.0	1.00

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SAMPLE TYPE CODES:
F = FIELD SAMPLE
MD = MATRIX DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
44.0 - 49.0	TETRACHLOROETHENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	TOLUENE	B049	MD	22-MAY-89	% RECOVERY		103.	0.0	1.00
	TOLUENE-d8 (BY GC)	B049	MD	22-MAY-89	% RECOVERY		102.	0.0	1.00
	TOTAL XYLENES	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	TRICHLOROETHENE	B049	MD	22-MAY-89	% RECOVERY		93.	0.0	1.00
	VINYL ACETATE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	VINYL CHLORIDE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00

PARAMETER VALUE QUALIFIERS (PVQ):
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SAMPLE TYPE CODES:
MD = MATRIX DUPLICATE

SOIL CHEMISTRY DATA
FACILITY: LAN33 TECHNICAL AREA 33
18-MAY-89 TO 22-MAY-89
LOCATION: 0022

DEPTH RANGE (FT)	VOLATILES	SAMP ID	SAMP TYPE	LOG DATE	UNITS OF MEASURE	PVQ	PARAMETER VALUE	DETECTION LIMIT	DILUTION FACTOR
44.0 - 49.0	CHLOROFORM	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROMETHANE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	DIBROMOCHLOROMETHANE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	A049	MS	22-MAY-89	UG/KG	JB	5.	6.	1.00
	ETHYLBENZENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	STYRENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	TETRACHLOROETHENE	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	TOLUENE	A049	MS	22-MAY-89	% RECOVERY		101.	0.0	1.00
	TOLUENE-d8 (BY GC)	A049	MS	22-MAY-89	% RECOVERY		103.	0.0	1.00
	TOTAL XYLENES	A049	MS	22-MAY-89	UG/KG	U	6.	6.	1.00
	TRICHLOROETHENE	A049	MS	22-MAY-89	% RECOVERY		91.	0.0	1.00
	VINYL ACETATE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	VINYL CHLORIDE	A049	MS	22-MAY-89	UG/KG	U	11.	11.	1.00
	1,1,1-TRICHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2,2-TETRACHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1,2-TRICHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,1-DICHLOROETHENE	B049	MD	22-MAY-89	% RECOVERY		108.	0.0	1.00
	1,2-CIS-DICHLOROETHENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,2-DICHLOROETHANE-d4	B049	MD	22-MAY-89	% RECOVERY		115.	0.0	1.00
	1,2-DICHLOROPROPANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-CIS-DICHLOROPROPENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	1,3-TRANS-DICHLOROPROPENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	2-BUTANONE	B049	MD	22-MAY-89	UG/KG	B	11.	11.	1.00
	2-HEXANONE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	4-METHYL-2-PENTANONE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	ACETONE	B049	MD	22-MAY-89	UG/KG	JB	7.	11.	1.00
	BENZENE	B049	MD	22-MAY-89	% RECOVERY		106.	0.0	1.00
	BROMODICHLOROMETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOFLUOROBENZENE	B049	MD	22-MAY-89	% RECOVERY		100.	0.0	1.00
	BROMOFORM	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	BROMOMETHANE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	CARBON DISULFIDE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	CARBON TETRACHLORIDE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROBENZENE	B049	MD	22-MAY-89	% RECOVERY		105.	0.0	1.00
	CHLOROETHANE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	CHLOROFORM	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	CHLOROMETHANE	B049	MD	22-MAY-89	UG/KG	U	11.	11.	1.00
	DIBROMOCHLOROMETHANE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	DICHLOROMETHANE-METHYLENE CHLORIDE	B049	MD	22-MAY-89	UG/KG	B	6.	6.	1.00
	ETHYLBENZENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00
	STYRENE	B049	MD	22-MAY-89	UG/KG	U	6.	6.	1.00

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