EXHIBIT A

GEOTECHNICAL LABORATORY DATA

KEANTAN LABORATORIES
720 North Valley Street, Suite B, Anaheim, CA 92801
Tel.: (714) 535-7616 • Fax: (714) 535-7568

April 14, 1995

APR 18 1995

ENV AMERICA
16 Technology Drive
Suite 154
Irvine, CA 92718

Attention: Mr. Dan Gifford

Subject: Report/Laboratory Testing Results
Project Name: Cactus Road Landfill
Project No.: MCU-01-T001
KTL Project No.: 94-050-001

Dear Mr. Gifford:

Enclosed are results of the laboratory testing program conducted on the OML sample from the Cactus Road Landfill project. The testing performed for this program was conducted in general accordance with testing procedures as follows:

TYPE OF TEST	TEST PROCEDURE
Triaxial Permeability	ASTM D 5084
Direct Shear	ASTM D 3080
Modified Proctor	ASTM D 1557
Atterberg Limits	ASTM D 4318

Attached herewith are Compaction Test Results, Summary of Triaxial Permeability Test Results and a Direct Shear plot.

Atterberg limits test was also performed on the OML sample. The liquid limit is 50, plastic limit 20, and plasticity index 30.

For triaxial permeability tests, specimens were remolded at 90% of maximum dry density and 2% above optimum moisture content.

We appreciate the opportunity to provide testing services to ENV AMERICA, Inc.. If you have any questions regarding the test results, please contact us.

Very truly yours,

Keantan Laboratories

Kean Tan, PE
Principal

Enclosure

KEANTAN LABORATORIES
720 North Valley Street, Suite B, Anaheim, CA 92801
Tel.: (714) 535-7616 • Fax: (714) 535-7568

SUMMARY OF TRIAXIAL PERMEABILITY TEST RESULTS
ASTM D 5084

PROJECT NAME: CACTUS ROAD LANDFILL

KTL NO.: 94-050-001

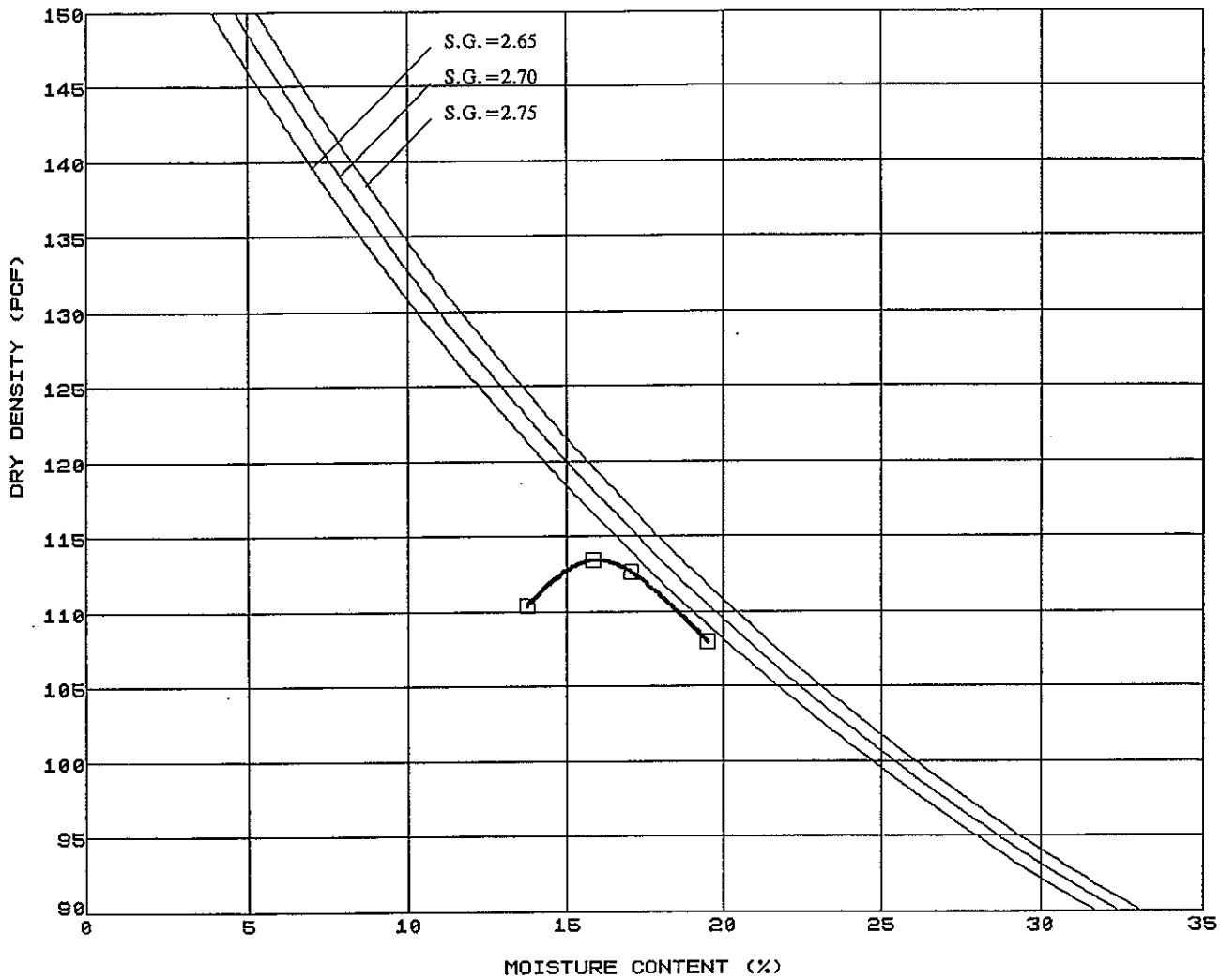
PROJECT NO.: MCU-01-T001

CLIENT: ENV AMERICA, INC.

DATE: 4-14-95

SUMMARIZED BY: KEAN TAN

SAMPLE ID	INITIAL MOISTURE CONTENT (%)	FINAL MOISTURE CONTENT (%)	DRY DENSITY (PCF)	EFFECTIVE STRESS (PSI)	HYDRAULIC CONDUCTIVITY (CM/SEC)
OML	18.0	29.8	102.0	5	1.0E-07
OML	18.0	28.6	102.6	10	8.0E-08
				20	3.1E-08



SYMBOL	SAMPLE ID.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	OPT. MOIST.(%)	MAX. DRY DENSITY (PCF)
□	OML	N/A	BAG	CL-CH	16	114

KEANTAN LABORATORIES	PROJECT NAME: CACTUS ROAD LANDFILL

COMPACTION TEST (ASTM D1557)

4/95

FIGURE

KEANTAN LABORATORIES
720 North Valley Street, Suite B, Anaheim, CA 92801
Tel.: (714) 535-7616 • Fax: (714) 535-7568

July 15, 1996

ENV AMERICA
16 Technology Drive
Suite 154
Irvine, CA 92718

Attention: Mr. Sean Shahin

Subject: Report/Laboratory Testing Results
Project Name: Cactus Rd. Landfill
Project No.: n/a
KTL Project No.: 96-050-002

Dear Mr. Shahin:

Enclosed are results of the laboratory testing program conducted on samples from the above-referenced project. The testing performed for this program was conducted in general accordance with testing procedures as follows:

TYPE OF TEST	TEST PROCEDURE
Moisture Content	ASTM D 2216
Percent Passing No. 200	ASTM D 1140
Grain Size Analysis	ASTM D 422
Atterberg Limits	ASTM D 4318
Modified Proctor	ASTM D 1557
Triaxial Permeability	ASTM D 5084

Attached herewith are Summary of Index Properties Test Results, Summary of Triaxial Permeability Test Results, a Grain Size Distribution Curve, and a Modified Compaction Test Results .

We appreciate the opportunity to provide testing services to ENV AMERICA, Inc.. If you have any questions regarding the test results, please contact us.

Very truly yours,

Keantan Laboratories

Kean Tan, PE
Principal

Enclosure

KEANTAN LABORATORIES
720 North Valley Street, Suite B, Anaheim, CA 92801
Tel.: (714) 535-7616 • Fax: (714) 535-7568

SUMMARY OF INDEX PROPERTIES TEST RESULTS

PROJECT NAME: CACTUS RD LANDFILL KTL NO.: 96-050-002

PROJECT NO.: N/A CLIENT: ENV AMERICA

DATE: 7-15-96 SUMMARIZED BY: K. TAN

SAMPLE ID.	MOISTURE CONTENT (%)	PERCENT PASSING NO. 200
BS-1A	12.1	52
BS-1B	11.7	57
BS-2	6.1	45

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SUMMARY OF TRIAXIAL PERMEABILITY TEST RESULTS
ASTM D 5084

PROJECT NAME: CACTUS RD LANDFILL

KTL NO.: 96-050-002

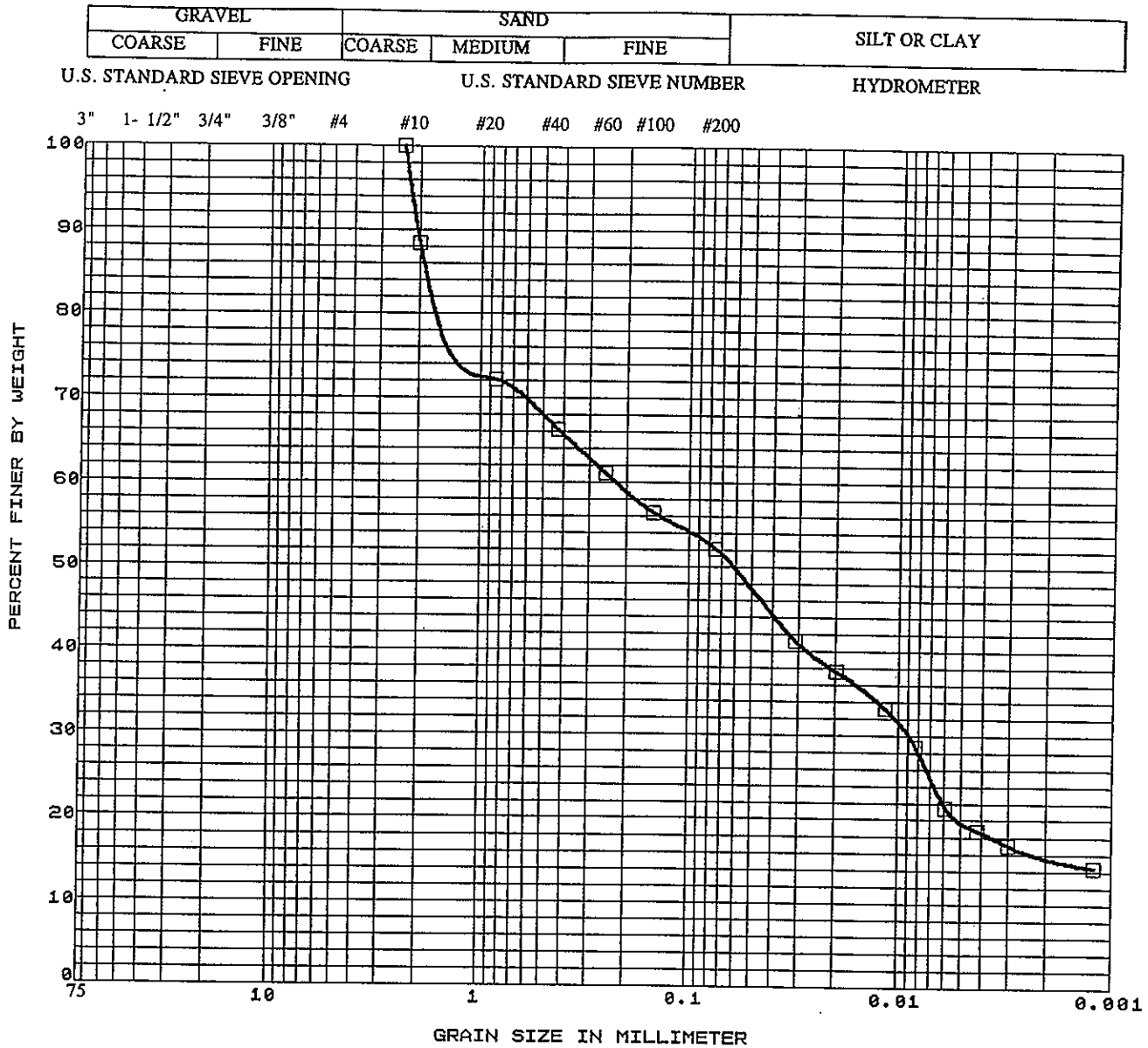
PROJECT NO.: N/A

CLIENT: ENV AMERICA

DATE: 7-15-96

SUMMARIZED BY: KEAN TAN

SAMPLE ID	DEPTH (FT)	USCS CLASS.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	EFFECTIVE STRESS (PSI)	HYDRAULIC CONDUCTIVITY (CM/SEC)
BS-1A & BS-1B COMP.	N/A	CH	18.0	104.4	5	2.8E-06
BS-1A & BS-1B COMP.	N/A	CH	20.0	104.2	5	8.1E-08
BS-1A & BS-1B COMP.	N/A	CH	22.0	104.5	5	2.1E-08
BS-1A & BS-1B COMP.	N/A	CH	18.0	110.2	5	3.8E-08



SYMBOL	SAMPLE ID.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTI-CITY INDEX
□	BS-1A & BS-1B COMP.	N/A	BUCKET	CH	59	33

KEANTAN LABORATORIES	PROJECT NAME: CACTUS ROAD LANDFILL

GRAIN SIZE DISTRIBUTION CURVE

7/96

FIGURE

KEANTAN LABORATORIES
720 North Valley Street, Suite B, Anaheim, CA 92801
Tel.: (714) 535-7616 • Fax: (714) 535-7568

Modified Compaction Test Results
ASTM D 1557

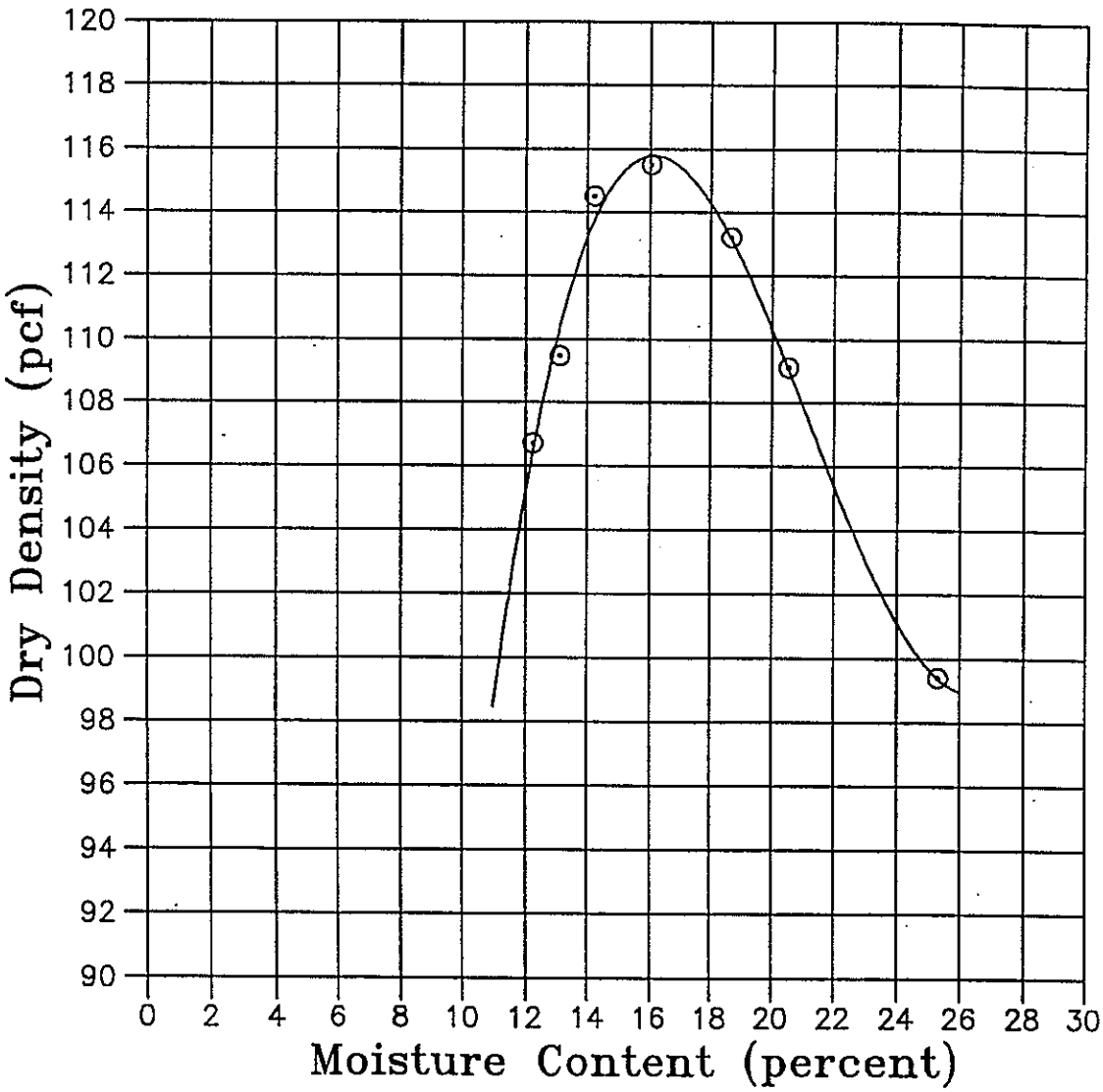
PROJECT NAME: CACTUS RD LANDFILL
PROJECT NO.: N/A
DATE: JUNE 1996
BORING NO.: N/A
SAMPLE NO.: BS-1 COMPOSITE

KTL NO.: 96-050-002
CLIENT: ENV AMERICA

DEPTH (ft): N/A
USCS CLASS.: CH

METHOD: A
DROP: 18 INCHES
NUMBER OF LAYERS: 5

RAM WEIGHT: 10 LBS
RAM TYPE: MANUAL
BLOWS/LAYER: 25



Optimum moisture content, percent	Maximum Dry Density, pcf
16	116

FIGURE NO.