CON 12-15
Doc #16379

ADDITIONAL PHASE II
ENVIRONMENTAL SITE ASSESSMENT
QUIKTRIP STORE #541R
2426 HUBBELL
Des Moines, Iowa
BARKER-LEMAR Project No. QTRIP 541R3
October 19, 2000

1.0 INTRODUCTION

BARKER, LEMAR & ASSOCIATES (BARKER-LEMAR) has completed additional Phase II environmental site assessment (ESA) activities at the above-referenced site. During previous assessment work, lead was measured above the statewide standard in groundwater. Previous samples were not field filtered prior to lead determination. The objective of this work was to determine lead concentrations in filtered groundwater samples, and sample additional monitoring wells to determine the extent of lead in the groundwater above statewide standards.

2.0 FIELD ACTIVITIES

BARKER-LEMAR personnel were on-site August 24, 2000, to collect soil and groundwater samples from the site. The location of soil borings/temporary monitoring wells is indicated in the Phase I/II Environmental Site Assessment Report dated September 2000. Figure 1 indicates the location of the site.

BARKER-LEMAR personnel were on-site September 29, 2000, to collect samples from additional monitoring wells to further assess the extent of lead impact detected during the August 24, 2000, activities. Existing monitoring wells, MW-A and MW-D, located at the current QuikTrip facility (2428 Hubbell Avenue), were utilized for sampling. Monitoring well MW-D is cross gradient and monitoring well MW-A is downgradient from the original sample location (C-1/E-3), where elevated lead was measured. These locations are shown in Figure 2. Samples were field filtered prior to submitting to a certified laboratory for analysis.

3.0 ANALYTICAL RESULTS

Field filtered groundwater samples were submitted to Keystone Laboratories, Inc. in Newton, Iowa. The samples were placed in an insulated cooler on ice for transport from the field to the laboratory. Chain of custody documentation was prepared and accompanied the samples from the field to the laboratory.

The results of the dissolved lead analysis indicate concentrations below the detection limit in MW-A and MW-D. Analytical laboratory reports are included in Appendix A.

4.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from the soil borings performed at the indicated locations and from any other information discussed in this report. This report does not reflect any variations in chemical concentrations that may occur between sampling locations or across the site. Actual subsurface conditions may vary and may not become evident without further exploration.

BARKER-LEMAR has prepared this report for the exclusive use of our client for the specific application to the project discussed. The report has been prepared in accordance with generally-accepted environmental engineering practices. No warranties, either express or implied, are intended or made. In the event any changes in the nature or location of suspected sources of chemical impact or other subsurface conditions, as outlined in this report, are observed, the conclusions contained herein cannot be considered valid unless changes are reviewed and the opinions of this report are modified or verified in writing by **BARKER, LEMAR AND ASSOCIATES, INC.**

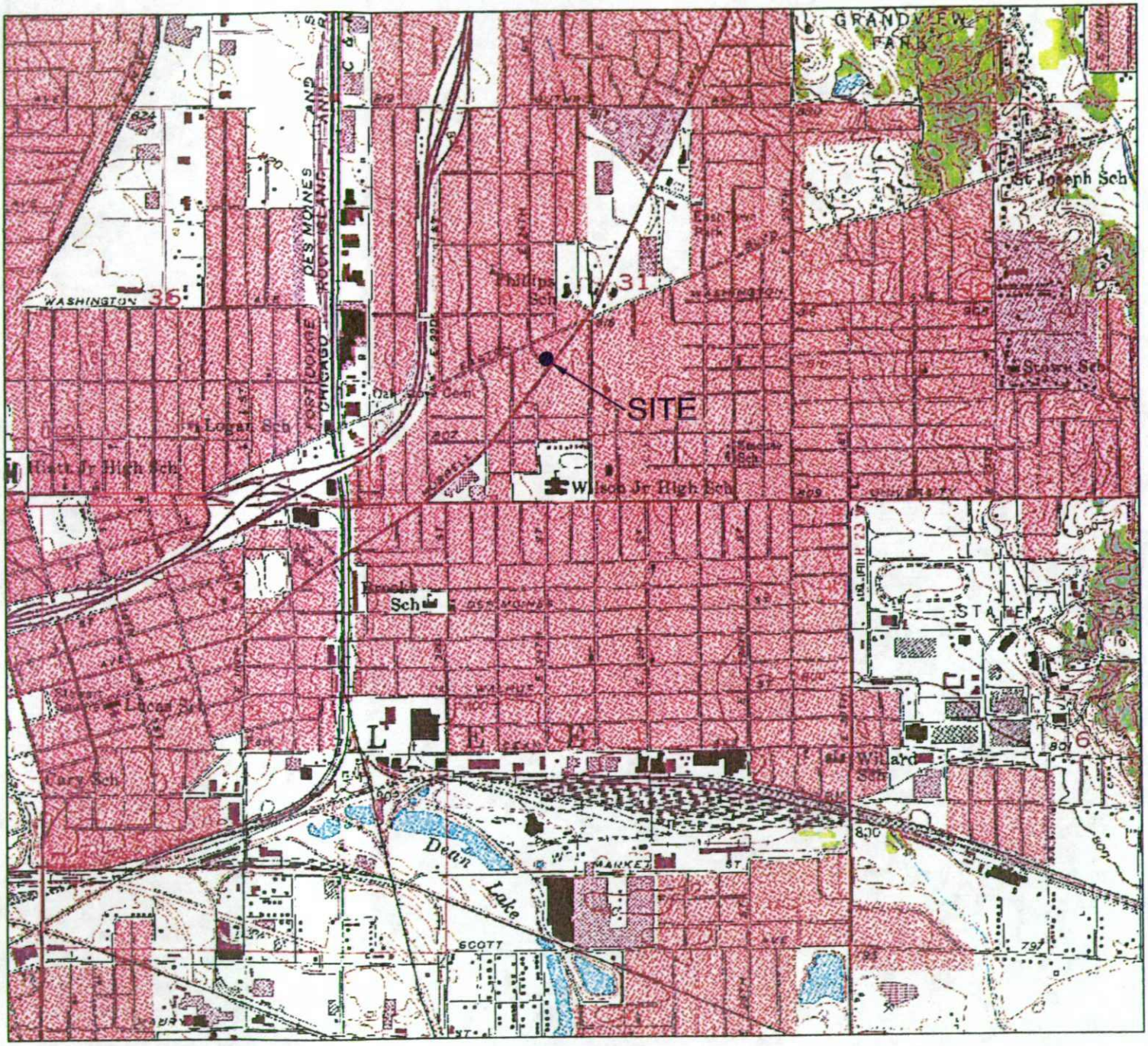
BARKER, LEMAR AND ASSOCIATES, INC. is pleased to have been able to provide these services to you. If we can be of further assistance, please do not hesitate to call us at 515-256-8814.

Sincerely,

BARKER, LEMAR AND ASSOCIATES, INC.

Christy L. Jaworski
Senior Project Manager

Anita Maher-Lewis
Regional Manager



SCALE

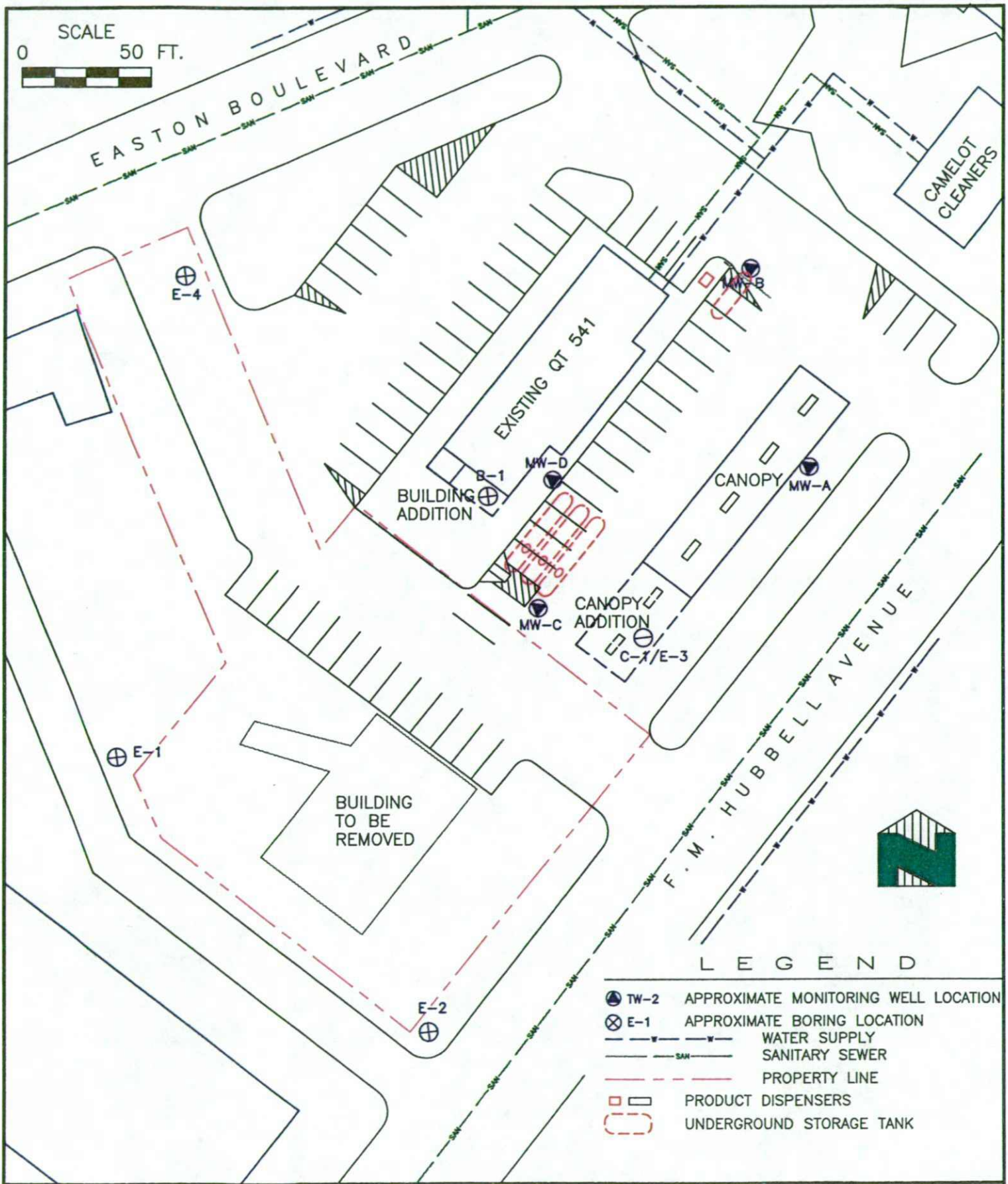
0 2000 FT.

REFERENCE USGS QUADRANGLE
CONTOURS APPEAR EVERY 10'

TOPOGRAPHIC SITE MAP
QUIK TRIP #541
DES MOINES, IOWA
PROJECT NO. QTRIP 541R.2
DRAWING DATE: AUGUST, 2000

Barker, Lemar & Associates, Inc.
1300 Cummins Road - Suite 201
Des Moines, Iowa 50315
Phone: (515) 256-8814
Fax: (515) 256-0152

FIGURE
1



SITE PLAN MAP
QUIK TRIP #541
DES MOINES, IOWA
PROJECT NO. QTRIP 541R.2
DRAWING DATE: AUGUST, 2000

Barker, Lemar & Associates, Inc.
1300 Cummins Road - Suite 201
Des Moines, Iowa 50315
Phone: (515) 256-8814
Fax: (515) 256-0152

FIGURE
2

APPENDIX A

Laboratory Results

Keystone LABORATORIES, INC.

MEMBER ACIL

ANALYTICAL REPORT

Report To

Christy Jaworski
Barker - Lemar Associates
1300 Cummins Rd.

Des Moines, IA 50315

Sample Information

Work Order: 1009.0968
Date Received: 09/29/00 12:20 PM
Collector: J. Wyciskalla
Collector Phone: 515-256-8814
Report Date: 10/04/00

Site Information

QT 541R
2426 Hubble Ave.
Des Moines, IA

Comments

Specific sample comments (if any) are shown below.

Sample No : Description : Date Collected : Matrix Analyte	Analysis Result	Detection Limit	Method	Analyst	Date Analyzed
1026338 MW-A : 9/29/2000 7:50:00 AM : water					
Lead, dissolved	< 0.005 mg/L	0.005	EPA 7421	KJS	10/03/00
1026339 MW-D : 9/29/2000 7:55:00 AM : water					
Lead, dissolved	< 0.005 mg/L	0.005	EPA 7421	KJS	10/03/00

Keystone Laboratories, Inc.

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☑ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480

☐ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PRINT OR TYPE INFORMATION BELOW

SAMPLER: J Wyciska-LP
SITE NAME: CRT 541R
ADDRESS: 2426 Hubbell Ave
CITY/ST/ZIP: Des Moines
PHONE:

REPORT TO:
NAME: Christy Jaworski
COMPANY NAME: Baker Lenox
ADDRESS:
CITY/ST/ZIP:
PHONE:
FAX:

BILL TO:
NAME:
COMPANY NAME:
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: Dissolved LEAD (filtered)							LAB USE ONLY: LABORATORY SAMPLE NUMBER
MW-A	9/29	750		1	H_2O	G	X							1026338
MW-D	↓	755		1	H_2O	G	X							26339

LABORATORY WORK ORDER NO.: 1009.0968
SAMPLE TEMPERATURE UPON RECEIPT: °C
SAMPLE CONDITION/COMMENTS:

Relinquished by: (Signature)	Date 9/28/00 Time 800	Received by: (Signature)	Date Time	Turn-Around: ☑ Standard ☐ Rush (Contact Lab Prior to Submission)
Relinquished by: (Signature)	Date Time	Received for Lab by: (Signature)	Date 9-28-00 Time 1220	Remarks:

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97